American Artisan
And Hardware Record

Vol. 52. No. 15. CHICAGO, OCTOBER 13, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

"American Seal"

Elastic Oil Roof Cement
Asbestos Furnace Cement
Stove Putty
Stove Lining

The very best made!

Sold by:
Perkins Roofing & Supply Co., Western Agents,
235 Lake Street, CHICAGO, ILL.
Stockhoff Supply Co., Southwestern Agents,
ST. LOUIS, MO.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

THE WIZARD
Adjustable Flexible Hanger.

The only Adjustable Hinge Hanger on market. Boiler Plate Steel Frame. Door Plate and Sliding Link Best Trade Malleable Iron.

STEEL ROLLER BEARINGS
Safety Door Hanger Co.
Ashland, Ohio. Hamilton, Ont.

GARLAND NUT & RIVET Co. PITTSBURGH

SMALL RIVETS
FOR ALL PURPOSES

SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS

SMALL BOLTS
AND
PUMP CHAIN

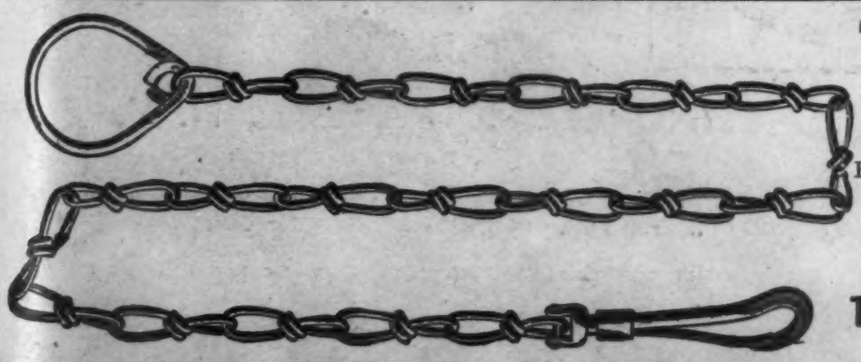
GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

Gray Mottled Enameled Ware
White Speckled Enameled Ware

We have added several new items including large sizes in Preserving Kettles.

Catalogue and prices on application.

Star ✶ Enameling & Stamping Co.
PITTSBURGH, PA.



"BROWN"
TIE-OUT CHAINS

Fitted with Stake Ring, a Swivel every ten feet, and a Swivel Snap.

A FREE SAMPLE WILL TELL THE STORY.

The BRIDGEPORT CHAIN CO.
BRIDGEPORT, CONN.

The Reasons why we make Low Prices on Good Cannon Stoves

Monarch Cannon Stove—10 Distinct Styles; 39 sizes; Fire Pots, 9 in. to 25 in.; weights 40 lbs. to 632 lbs. On long or short feet.

1st—We make our stoves and buy our iron in Pittsburgh—the biggest and best iron market on earth—so do many other stove makers buy their iron in Pittsburgh. But they have to pay the freight. We save that.

2nd—We have one crew of men who have been working on these stoves for years. That helps them and helps us and will help you if you buy the goods.

3rd—The coal that is burned in a Cannon Stove costs just as much per ton as if it were burned in a Parlor Heater; why waste it? Get all the good out of it there is in it.

THAT'S WHY WE MAKE GAS AND SOOT Consuming Stoves of This Class.

We positively make the most economical Cannon Stoves for burning either bituminous or anthracite coal of any size or condition.

Stove & Range Co. of Pittsburgh, Pa.

Here's a Comparison!

Compare the actual, net weight and the heating surfaces of the KELSEY Generator with that of any furnace, of the same size!

Quite a difference, isn't there?

The KELSEY is *two* or *three times* as heavy as the ordinary furnace of corresponding size!

The great weight in the KELSEY is principally in the heating surfaces.

The corrugated heating flues are heavy cast iron, and are very durable. Another strong point: They retain the heat for a long time, should the fire become low, or accidentally go out.

Then, the KELSEY has nearly *twice* the *radiating surface* of a furnace of corresponding size.

This means nearly twice the *heating capacity* of the ordinary furnace.

If you want the exact figures—ask for a copy of our booklet, "All About the KELSEY."

It's full of interesting facts.

If you live in unoccupied territory, we will also send our Exclusive Agency Proposition, if you ask for it.

But send for the booklet!

KELSEY HEATING CO., SYRACUSE, N. Y.

New York City:
156 Fifth Avenue

Western Sales Agents:
COOK & VAN EVERA CO.
38 E. Lake St., Chicago

JAMES SMART MFG. CO., Brockville, Ontario, Sole Makers for Canada

Jewel Steel Ranges

MADE IN CHICAGO

The Jewel Steel Range has the points to persuade a customer it is the best.

It is **THE steel range** you can place in a customer's kitchen and **know it will please.**

Jewel Heaters

MADE IN CHICAGO

Steel Construction

Light and **Strong**

Feed Door very large

Ash Pan full width

Central Draft principle.

Up to date throughout.

We believe we give the best value in the heating stove market.

Write for prices.

George M. Clark & Company Division American Stove Company **Chicago**

Jewels are all right.

Some Radiant Home Specialties

The LATEST ADDITION to the RADIANT HOME LINE.

The LOWEST PRICED HIGH GRADE TRADE-MARK STEEL RANGE ON THE MARKET.

Key-Plate Top, Lift Broiler Door, Grates Removable Without Disturbing Linings; Thermometer.

Applications for Detail Descriptions, Prices and Agencies Solicited.

Ovens 16 inch, 18 inch and 20 inch. Griddles 8 inch and 9 inch.

The Radiant Home Force Draft Furnace

Fire Pots 22 inch, 24 inch, 26 inch and 28 inch

Original Air Blast Fire Pot, Patented Force Draft Ring.
BURNS Hard Coal, Soft Coal, Coke, Lignite, Wood.
MOST ECONOMICAL, saving fully one-half fuel during season over other makes.

Germer Stove Company

Largest Manufacturers of Strictly High Grade Stoves, Ranges and Furnaces

Main Offices & Foundries, Erie, Pa.

WESTERN BRANCH
231-247 Newberry Ave., Chicago, Ill.

Foster's Prize Steel Range

THE LEADER OF THE SEASON

It embodies all late improvements looking to quality and efficiency, yet can be sold at comparatively low prices. It will pay the dealer to order a sample and consider agency.

WRITE FOR CATALOG

The FOSTER STOVE CO.
IRONTON, OHIO

"BANNER"

"SPLENDID RESULTS"

The Banner Quality Range is one of unquestioned merit and individuality. A pleasing combination of best material, good workmanship and art.

QUALITY STOVES RANGES SURE TO PLEASE

We Guarantee it to Operate Perfectly

"Exclusive finish and features" are found in our goods. Ask us for samples of advertising which we furnish free.

QUALITY STOVE & RANGE CO., Belleville, Ill.

THE B. RUBY RANGE

Four Hole Type

For Hard Coal. Soft Coal or Wood

Embodies all modern improvements. Has large oven, large reservoir, modern fire box equipment, and large ash pit.

A handsomely ornamented range and a perfect worker.

What is your name and address. If you sell stoves we will send you our latest catalog.

SOUTH ERIE IRON WORKS, SOUTH ERIE, PA.

The Gold Coin

Made on honor means—when the statement is on the square—that the maker stakes his reputation on the quality and merit of the article in question.

Gold Coin Base-burners are made on honor in the strictest sense of the term. As completely **on honor** as gold coins made in the mints.

No base burner is handsomer, richer or more attractive than **The Gold Coin** in its new 20th Century dress, and as a good consistent, reliable and economical worker, everybody who knows stoves knows **it has never been equalled.**

The Ventiduct Stove with a Ventiduct that is a Ventiduct.

CHICAGO STOVE WORKS
Chicago, Ill.

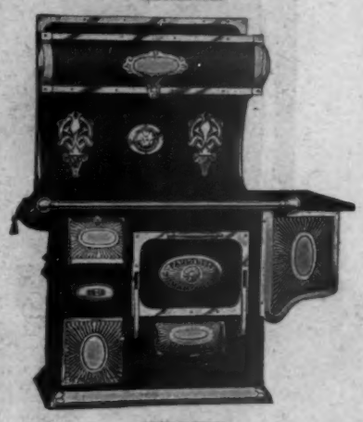
PECKHAM & SMITH,

Marshalltown, Iowa.

Write us;—

We have sold our tools for cash through your paper. Please stop the deluge of letters. Yours is a fine medium to reach buyers.

"The times do not look propitious for the local merchant; he fails to get in touch with the people, to give them definite information relative to his business. We get volumes from the mail order houses but little from our local merchants."—*H. H. Osborn in Adrian, Mich., Press.*



You can surely do some Malleable Range biz in your town if you show the New Faultless and tell the folks about it in your local papers.

Customer—So you sell these stoves at $9.00 each? It must cost that to make them.

Dealer—It does.

Customer—Then how do you make any money?

Dealer—Repairing them.

Mighty few repairs needed on Faultless Malleable Ranges.

The new 1907 Faultless Malleable Range is a dandy. It is riveted where others are bolted and made with Polished Malleable Top, Key Plates, Covers, Centers, Pouch Front, End Door Frame, Ash Door Frame, and a model Malleable Oven Door, Oven Door Handle, Stakes, Hinges and Supports. All-cast Back Flue. Very roomy High Closet with Roll Door and a copper contact Reservoir that holds eleven gallons; no reservoir damper required.

ELEVEN GALLONS! that's a big lot of water compared with what that reservoir in the cheap range on your floor holds. Measure up and you'll find 'em to average about four gallons.

The Cast Base which raises the body of the Range nearly three inches is well liked by the boys who do the "setting up" because the Range itself will readily pass through any ordinary size door.

Who wishes to save *freight* and *breakage in transit* and cost for *crating* and repair of new stoves? *Everybody.*

Our plan saves the dealer about 10%. We sell direct by mail and give you the best Range we know how to make. If you wish to learn more, please write our folks (Faultless Mfg. Co., St. Charles, Ill., near Chicago) and they'll tell you!

How to Meet Catalog House Competition on STEEL RANGES

We will sell you Steel Ranges at a price that you positively can meet the competition of the catalog house. These Ranges, from a quality standpoint, are **100** per cent greater value than the cheap catalog house range. Our Ranges are not cheap ranges, but good honest quality ranges at a low price.

WILLARD STEEL RANGES

are advertised in many leading publications, and the people know them and want them. Get my prices—it means profit—DOLLARS—to you. Every sale leads to another. I can sell you a better range than you can buy ANYWHERE for the money; one that cooks well and bakes evenly and perfectly, and will last a lifetime, with proper care. **Tell me how many ranges you can sell annually** and I will make you a very interesting proposition.

Your Own Name Plate on Ranges on Orders of Ten or More

Dealer Agents Wanted

WM. G. WILLARD, St. Louis, Mo.

Room No. 31 Willard Bldg., 316 Chestnut Street

HEAT LIGHT FOR THE HOME STORE HOTEL SCHOOL CHURCH OFFICE COLLEGE THEATRE FACTORY VILLAGE

INFORMATION FREE SEND FOR IT.

DETROIT HEATING AND LIGHTING CO. DETROIT MICH.

Hub Ranges and Heaters

Rex Hub with Gas Shelf

Are handsomer, better made and more popular than ever. We show in this cut the Rex Hub, one of our latest patterns in the attractive Ebony Finish. Send for large folder showing our leading lines of ranges. We make several lines with this rich, plain finish.

We can give dealers, large, exclusive territory.

SMITH & ANTHONY CO.

MAKERS OF HUB RANGES AND HEATERS. BOSTON, MASS.

The Champion

Hot Water Combination Boilers

"They Fit Any Furnace"

(Base section when used without ring sections)

Combination heating for residence or buildings excells all others. The **Champion** boilers are adapted for the use of **all kinds** of fuel, and are tested to 100 pounds hydraulic pressure before leaving factory. They are **guaranteed** not to leak.

The Champion will increase the heating capacity of any furnace, and reduce coal bills as well. They will increase the business of every dealer who handles them.

FRANK D. STOLZ,

156 Webster Ave. CHICAGO

Do You Get Your Share?

There are more range buyers today than ever before. Are you getting all the orders you should? Harder work now to make sales than it used to be, but a good, Up-To-Date Line of Ranges at fair prices and the right kind of argument will still win.

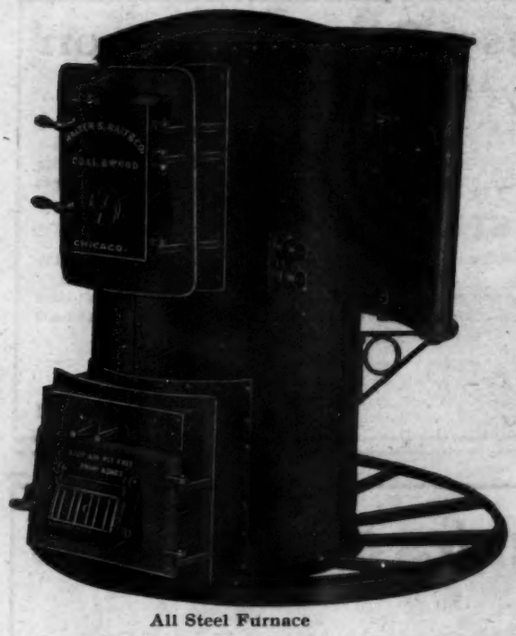
Born Steel Ranges

present an attractive array of valuable selling points. They are made in every required size and style, and the value we give is admitted by competitors to be exceptional.

SEND FOR NEW CATALOG JUST OUT

The BORN STEEL RANGE Co.

CLEVELAND - OHIO



All Steel Furnace

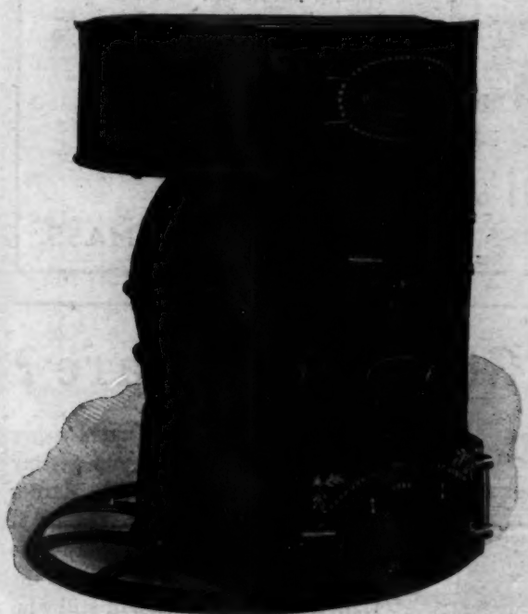
NEW BLOOD!
NEW IDEAS!
NEW FIRM!
NEW FURNACES!

A new and complete line of warm air furnaces—made in every style—for every fuel—and adapted for every climate—all cast iron—all steel—cast iron with steel radiator—all with one name—one style—one quality—THE BEST.

With a life long experience in furnace work, this complete new line embodies many practical improvements, and the entire line will carry the name of

WALTER S. RAIT & CO.

which will be a synonym for all that is best in warm air furnaces.



Cast Iron with Heavy Steel Plate Return Flue Radiator.
Also made with large feed door, 14x15 inches.

All Cast Iron, with Radiator cast in one piece.
Also made with large feed door, 14x15 inches.

Write for our illustrated descriptive matter—learn our prices and you will WANT the AGENCY.

WALTER S. RAIT & CO.

Inventors, Designers and Manufacturers

211-213 Lake Street — Chicago, Illinois

MONARCH

AIR BLAST FURNACES

FOR SOFT COAL

NIAGARA

FURNACES

FOR HARD COAL AND COKE

IF YOU HAVE NOT RECEIVED OUR CATALOGUE PLEASE SEND FOR IT AT ONCE.

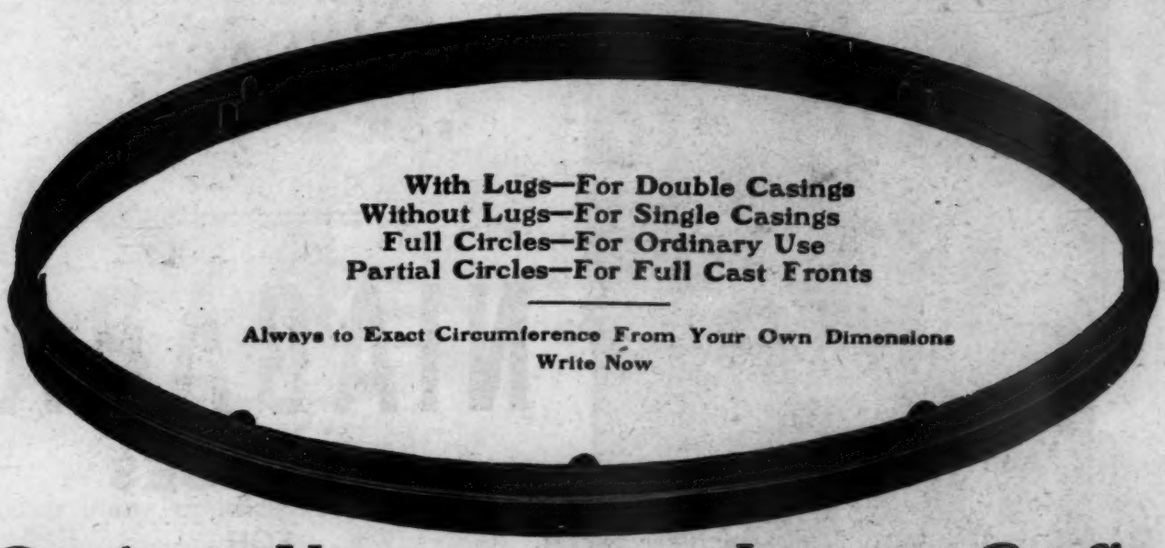
The Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

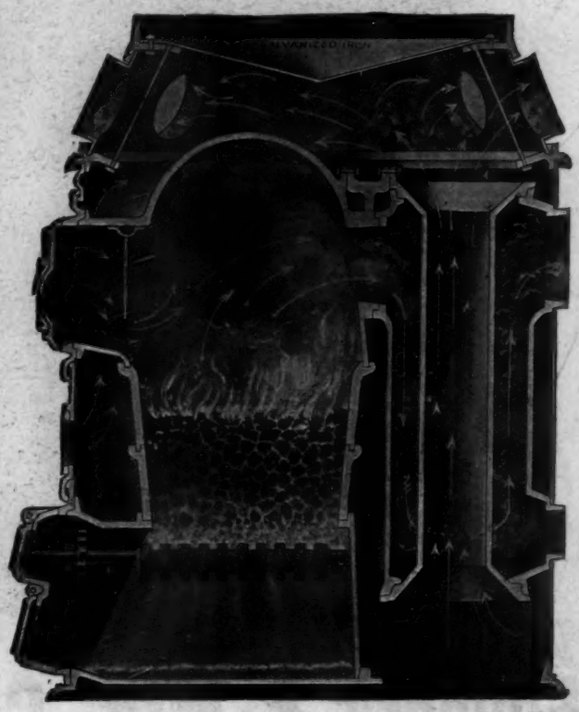
Never Break — *Circles Perfect*



Ready to Use — *Increase Profits*

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings — **Mfrs. of Semi-Steel Registers**



Shaded Sectional Cut

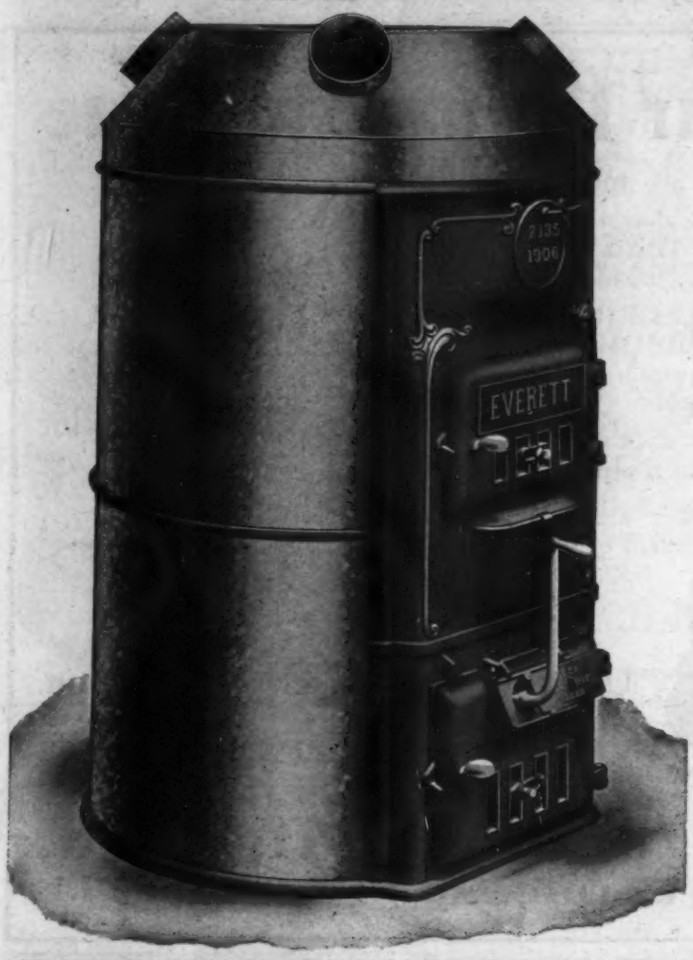
of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

March-Brownback Stove Co.

POTTSTOWN, PA.



MAGEE
EVERETT FURNACE

"Maximum Service—Minimum Expense

As a first-class furnace heating proposition it stands
SECOND TO NONE

We solicit inquiries, as its price will interest you.

MAGEE FURNACE COMPANY, Makers
38 Union Street, Boston, Mass.

Chicago Agents
LOTT-BURTON CO.,
86 Lake Street

Boynton Warm Air Furnaces, Hot Water Heaters, Steam Boilers

are the result of 56 years practical experience.

For more than half a century the **BOYNTON** line has been the standard.

We make Furnaces of cast iron, or steel, or combination of both—portable or brick set—for hard coal, soft coal, wood lignite, or any fuel, and are adapted for any climate.

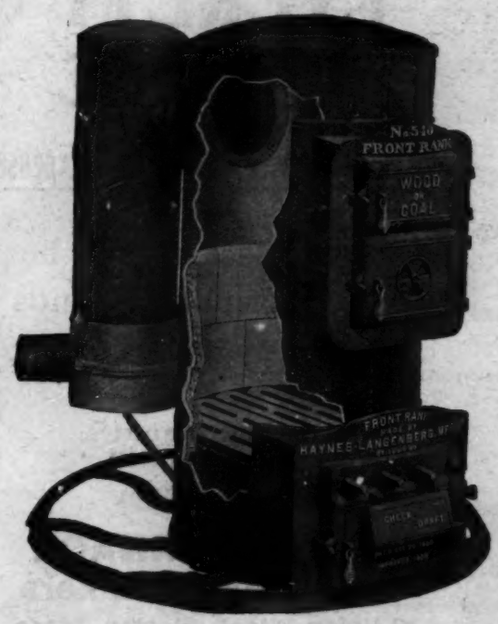
Our Steam and Hot Water Heaters Always Lead.

Write for our complete Catalogs.

THE BOYNTON FURNACE COMPANY,

147-149 Lake Street, CHICAGO
207-209 Water St., NEW YORK

Write for Our 1906 Catalogue



THE

"Front Rank" Steel Furnaces

are well named. Every dealer should know its worth.

Burns Hard or Soft Coal and Wood or Coke.

Uses any hot-water combination.

IT IS A 20 YEAR SUCCESS.

Haynes-Langenberg Mfg. Co.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON

WERE YOU CALLED UPON

To install for a customer the very best furnace in the market, could you conscientiously take the contract with the heater you are selling?

You certainly could if you install a MUELLER, ALL CAST IRON, DOUBLE RADIATOR FURNACE.

The MUELLER is THE BEST because it possesses MORE DIRECT HEATING SURFACE (therefore more economical), is More Powerful and More Durable than any other.

Do you wish the exclusive agency in your town? We'll give it to you.

We will gladly send you our catalog on request.

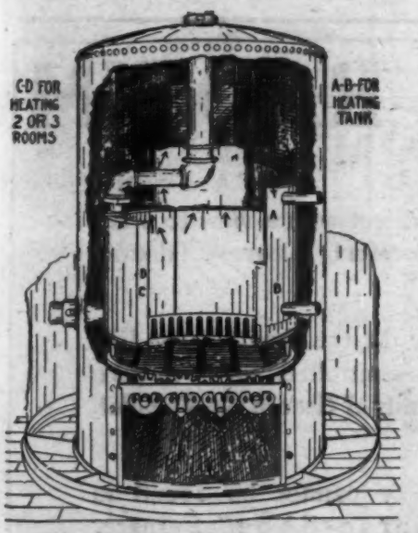
We also make a complete line of Steam and Water Boilers.

L. J. Mueller Furnace Co.

ESTABLISHED 1857

191 Reed Street :: :: MILWAUKEE

EVOLUTION OF THE PERFECT FURNACE



The new and better way of home heating, plainly told and finely illustrated in the new Quaker Catalog No. 20.

It's yours for the asking.

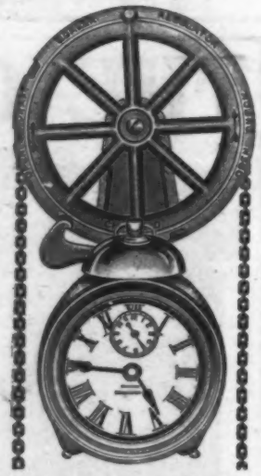
We manufacture complete Heating Plants,

Warm Air and Hot Water

Offices and Exhibit Rooms:

40 Dearborn Street, Chicago, Ill.

Factory: Chicago Heights.



QUAKER MFG. COMPANY

A. C. BECKER, Osceola, Iowa,

Writes:

"I became a regular subscriber to THE AMERICAN ARTISAN when I entered the hardware field. I have remained one ever since. For me, it is the most interesting, the most instructive and necessary paper published No novice should start a hardware business without it. Without it, no veteran can hope to be a success."

Don't Imagine that all Gas Ranges are made alike. Quite the contrary, some never work well; some work well at first but soon give out because not honestly made. Others work well at first and continue to work well because they are honestly made We guarantee our Gas Ranges against all defects that may ever arise from faulty material or workmanship, and our guarantee is good. We can satisfy you on this point. We tell all about it in our No. 44 Catalog.

Western Office and Warehouse:
1225 W. 10th St., KANSAS CITY, MO.

H. ADLER CO., Carnegie, Pa.
Manufacturers of ACME Gas Appliances

BOOMER FURNACES

Quickly Establish a Local Reputation

It is always a little hard to introduce an old Furnace in New Territory.

But the first BOOMER Furnace you sell will pave the way for an unlimited profitable furnace business.

It is likewise better to take an old, time-tried furnace like the BOOMER, and sell it in new territory, than to continue selling, or endeavoring to sell, a Furnace that does not "stand up" the way you would like to have it.

The BOOMER Furnace is one of those always-reliable, sure-to-give-satisfaction commodities that is a genuine pleasure to sell.

The BOOMER Agency, remember, has attractive inducements.

We'll gladly send you our Furnace catalogue upon request.

The HESS-SNYDER COMPANY
Manufacturers — MASSILLON, OHIO

THE GILT EDGE RADIUM

has been studied out with a view to **practicability** and **comfort** in every detail.

The air entering at the front in the **Gilt Edge Radium** is controlled so as to give greatest **Uniformity of Heat in the Fire-Pot.**

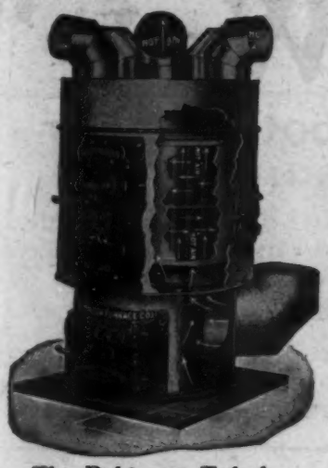
Greater efficiency cannot be found in any other "Horse-Shoe" Furnace.

See Our Catalogue

R. J. Schwab & Sons Co.
. · THE FURNACE MEN · .
MILWAUKEE, WISCONSIN

PETERS & HARVEY
MANTENO, ILL.

Write:
"You may discontinue our help wanted advertisement. We have received several replies and have engaged one of the applicants."



The Robinson Tubular

The Difference in Furnaces

In primary construction the

"ROBINSON"

Tubular is the furnace par excellence.

Why? Because it is the only Tubular Furnace having Direct Draft and Return Flue with long fire travel.

It has a larger heating surface than other furnaces.

And it has a Direct Draft Damper, which, when closed, causes the smoke to divide and make two complete circuits of Radiator around flues before entering exit.

Finally, the Robinson is constructed on correct and thoroughly tested principles, with the single aim of giving the greatest amount of heat from the smallest amount of fuel. Does your coal bill matter?

Our new catalog tells more about it.

Robinson Furnace Co.

Established 1879
107-109 Lake St., CHICAGO

J. F. LEWIS, Cisco, Ill., writes: *I cannot get along without THE AMERICAN ARTISAN.*

THE APEX FURNACE
Simple as a common stove

NO CHANCE

for the **Apex** to get out of order or go wrong.

THAT'S WHAT

furnace users want, something that they won't be afraid of. Something that any member of the family can operate successfully. All cast iron and very heavy and durable.

One great advantage is in having the two-piece pot interchangeable with the Lion pot, making it possible to sell it at the very lowest figure.

ROOD & McINTYRE
KANSAS CITY, MO.
Southwestern Distributors

Youngstown Furnace and Supply Co.
YOUNGSTOWN, OHIO

NATURAL GAS FURNACE

The "MANEST"

will heat any house, better and cheaper and with less labor than any other system.

Write for the agency in your locality.

The MANNEN & ESTERLY CO.
Sole Manufacturers. CLEVELAND, O.

The "Manest" can also be attached to any Coal Furnace.

FLORAL CITY FURNACES

are as easily managed as an ordinary stove.

They will **burn Hard Coal, Soft Coal and Wood Equally Well.**

Our Furnaces are recognized as the **most reliable** on the market.

No Dealer Should be Without Them.

Send for our latest CATALOGUE

MONROE FOUNDRY & FURNACE CO.
MONROE :: :: :: MICHIGAN

"The Weir"

is the best for both retailer and consumer

Because it is the **heaviest all-steel** furnace made.
Because it is a **gas** and **soot consuming** furnace.
Because it is **economical** of **fuel.**
Because it is **gas** and **air tight.**

Five styles in twenty-three sizes. Write for Catalogue.

Meyer Furnace Co., Peoria, Ill.

We call it the **Handy Furnace Pipe** because it is so **easily fitted.** The handy pipe is made in **scientific** patterns and of the **best material.** We make Square and Round Furnace Pipe, Elbows, Asbestos Pipes and Registers.

Large Stock Constantly on Hand. Prompt Deliveries.

F. MEYER & BRO. CO., Peoria, Ill.

VAN'S RANGE

Patent Improved Wrought Steel Portable

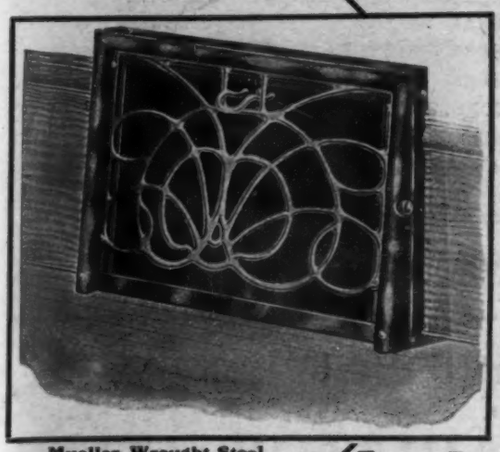
For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

No More Breakages



Mueller Wrought Steel Wall Register

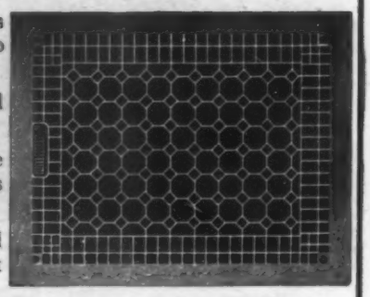
The MUELLER WROUGHT STEEL Wall Register CAN NOT BREAK.

Each and every part is made of wrought steel—no cast iron is used.

The Latest and Best Wall Register made.

Circular enumerating the many superior features of this register mailed on request.

We also manufacture a full line of semi-steel and cast floor registers.



Floor Register

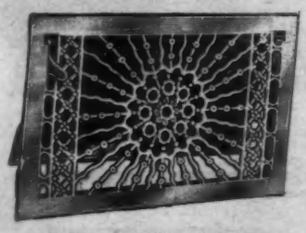
Let us have your inquiries.
Orders promptly filled.

L. J. Mueller Furnace Co.

Established 1857

191 Reed Street Milwaukee

SOMETHING NEW



Horizontal Flamboyant Design. To Be Placed Horizontally

T. & B. WAFER SIDE WALL REGISTER

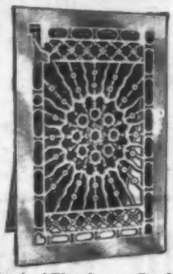
"AS THIN AS A WAFER"—1 inch deep only when closed.

FOR SHALLOW FLUES AND THIN PARTITIONS

Size of opening
7 x 10
7 x 12
8 x 13
10 x 13
12 x 14

A large stock carried on hand in Black Japanned and Oxydized Copper Plated Finishes.

Size of opening
8 x 10
8 x 12
9 x 12
10 x 12
10 x 14



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TUTTLE & BAILEY MFG. CO., NEW YORK BOSTON CHICAGO

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority

OUR LITTLE GIANT for Combination Heating

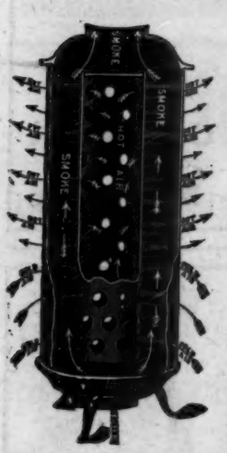
is known to furnace men and plumbers in every State, and is more widely used than any other combination heater made. Along with our Circular Giant and Maltese Heater, it has won its way to the top. Don't try something new, but send for our Catalog.

CHARLES SMITH COMPANY, 101 Lake St., CHICAGO

THE SCHWAB SIDE WALL REGISTER

THE SCHWAB SIDE WALL REGISTER AND REGISTER BOX, NEATEST IN DESIGN, NOISELESS IN OPERATION, SUBSTANTIAL IN CONSTRUCTION, A FACTOR IN MODERN METHODS OF HEATING RESIDENCES FULLY ILLUSTRATED IN OUR REGISTER CATALOGUE. SENT FREE ON APPLICATION.

R. J. SCHWAB & SONS CO., The Furnace Men **Milwaukee, Wis.**



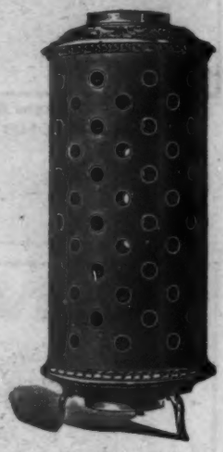
Save ½ Your Fuel

BY USING THE

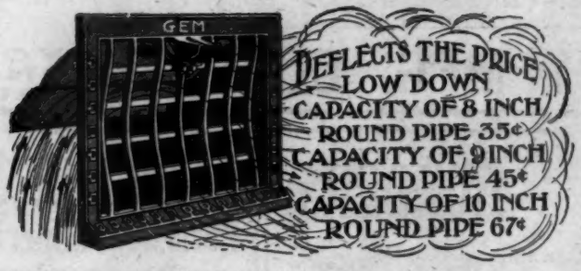
ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded.
Over 100,000 of them in use.
Fits any stove or furnace.
Price from $2.00 to $12.00.
We make the original and genuine "ROCHESTER RADIATOR."
We do not sell to catalogue houses.
For Hard or Soft Coal, Wood or Gas.
We refer all inquiries, to you from your town, when you carry a stock of our Radiators.
We guarantee our radiators not to interfere with or choke the draught, they are easily cleaned.
One square inch of radiating surface directly over the hot current is better than six in a drum, or side heater, with perpendicular tubes.
Write for descriptive catalogue and prices.

ROCHESTER RADIATOR CO., 120 Furnace St., Rochester, N. Y.

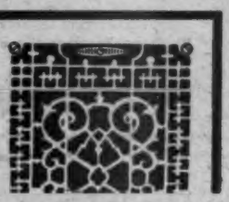


THE GEM SIDE WALL REGISTER



For sale in Canada by Guelph Foundry Co., Guelph, Ontario

C. H. FOSTER, 3403 Bell Avenue, ST. LOUIS, MO.



Independent Semi-Steel Registers

All the advantages of steel
All the advantages of cast iron
Our new catalogue should be in your hands

Independent Register Co.
Cleveland, O.

MONCRIEF

Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.
6-8-10 Long Street, CLEVELAND, O.

Sales Agent—J. C. KIMMEL, 3514 East 15th Street, Kansas City, Missouri

F. D. Burgess, Waupaca, Wis., writes:

"Please take out advertisement for Tinner, I have one in sight that I think I shall get. I have had all kinds of letters from men in this state, Ills., Iowa and Minnesota. I am running tin and plumbing shop here in connection with the Union Stove Co."

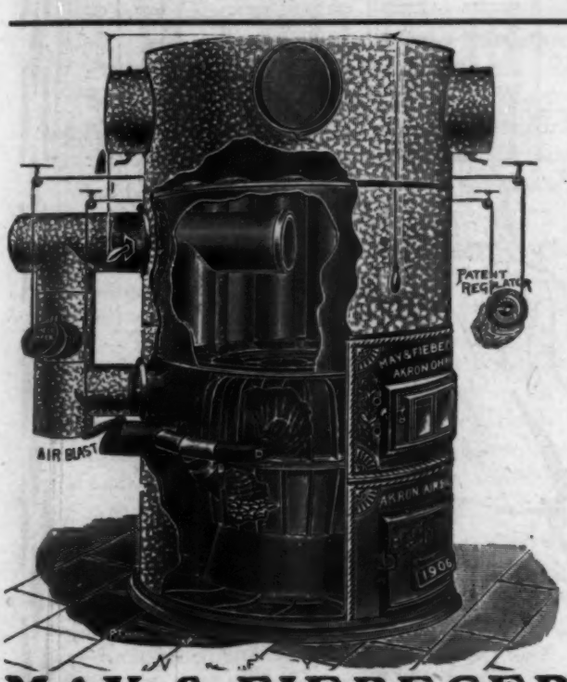
The American Furnace

Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

Write for Particulars

American Furnace Co.,
ST. LOUIS, MO.



THE NEW Akron Air Blast

is the most up-to-date furnace on the market. More XXth Century talking points than the best. New front—enlarged feed door—new patented grate. But it remains as it always was

The Greatest Fuel Saver And the Best Seller

Write for our literature.

MAY & FIEBEGER, - Akron, Ohio

THE NEW

"VICTOR MONARCH" GAS RANGE

Our All Cast Iron Gas Range illustrated herewith contains many new features and latest improvements not to be found in any other range, making it the most desirable fixture on the market for flats, apartments and dwellings.

Guaranteed a Perfect Roaster and Baker

Send for circular.

The Standard Stove & Range Co.

Office and Warehouse 312 First Ave., PITTSBURG, PA.

Everyone Praises the "VICTOR MONARCH" **Prompt Shipments Guaranteed**

ROUND OAK
STANDARD OF AMERICA

St. Paul, Minn.
Feb. 3, 1906.
Estate of P. D. Beckwith, Dowagiac, Mich.
Gentlemen :—
Some two months ago the "——" people put in one of those best steel ranges for a Mr. "——," No.— E. Belvidere Ave., this city. After experimenting with the same for some time (2 months) trying all kinds of ways, changing chimney, etc., they had to admit they could not make the range bake with hard coal and took it out. Mrs. "——" came in to see me (she having heard of some one using a Round Oak Chief) about a range and after talking a little while she told me of her trouble with the —— range. She said she would buy a Chief provided I would guarantee same to bake with hard coal—well I thought I was up against a hard proposition—but said I would certainly do so—at the same time I felt a little fearful after all the trouble the other people had. After looking the chimney over carefully and finding nothing wrong with it I set up an 8-18 Chief with water front—started a fire and told the lady when she was ready to bake to let me know and I would teach her how to bake with a Chief. She did so three days later and I went. I saw everything was O. K.- a nice fire, hard coal—I put on a little more fresh coal and let her go. Put in rye bread and in one hour we had the finest baked bread you ever saw. We tried cake next same results. Baked potatoes next same result. I went away happy. Two days later I received a check in full for the Range. Met Mr. "——" about a week ago and he threatens to sue me on account of his wife doing so much baking.
Yours truly,
J. C. Stuhlman.
Remember the Chief is the "Range of the year"—a range of highest quality at a reasonable price. Perhaps you could sell it. Send for the "Book of the range" anyway.

ESTATE OF
P. D. BECKWITH,
FRED E. LEE, Manager,
DOWAGIAC, MICH.
Fabrikannte nur von den besten waare.

"You will call me 'Clatterfoot!' I'll shake der ashes out of you."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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DANIEL STERN, PUBLISHER AND PROPRIETOR,

69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, OCTOBER 13, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

A Matter of a Billion Dollars.

WERE it not for a gradual training that has led up to it, even the twentieth century mind would be illy prepared to comprehend the vastness of modern industrial undertakings and the enormous sums of money involved therein. The centralization of industrial forces that has been wrought out in America during recent years has brought results so startling in their magnitude as to command the attention of the civilized world and to lead to conjecture as to what will be the effect of the ultimate outcome upon the affairs of the world at large. We in America have become more or less accustomed to the recital of achievements in vast industrial endeavors and to much that relates to the wonderful successes thereof, but notwithstanding the enormous money figures to which we have become more or less accustomed in this connection, there now comes to us with startling effect the facts of an iron ore transaction in the line of centralized industrial effort that is so vast in its extent and so great in the magnitude of resources to be developed and the amount of money involved, as to exceed in proportions any industrial action that has ever occurred in the history of the world.

On October 5th in New York City a contract was entered into between the Great Northern Railway Co. on the one hand and the United States Steel Corporation on the other, by which certain vast beds of iron ore, limitless in extent and lying upon the railway's property in the state of Minnesota, and upon its line, were passed to the control of the steel corporation. The arrangement provides for the taking out of all of the vast beds of iron ore by the steel corporation upon a royalty stipulation, by which it is to pay a certain defined progressive price per ton until the entire field is exhausted, and it also agrees to ship the entire mined tonnage to marketing points over the line of the Great Northern Railway. It is estimated that the period of the undertaking will cover the balance of the present century, at the minimum of computation of amount of ore that must under the agreement be taken out annually. The minimum annual quantity is fixed in a constantly increasing scale. The price of the ore per ton with added freight is also fixed in an increasing scale and the amount of aggregate payment is, of course, governed by the figures thus secured. For the first period of eleven years the figures are as follows:

Year.	Price per ton and freight.	Amt. ore.	Payment.
1907	$1,650	750,000	$ 1,237,500
1908	1,684	1,500,000	2,526,000
1909	1,718	2,250,000	3,865,500
1910	1,752	3,000,000	5,256,000
1911	1,786	3,750,000	6,697,500
1912	1,820	4,500,000	8,190,000
1913	1,854	5,250,000	9,733,500
1914	1,888	6,000,000	11,328,000
1915	1,922	6,750,000	12,973,500
1916	1,956	7,500,000	14,670,000
1917	1,990	8,250,000	16,417,500
Totals	....	49,500,000	$92,895,000

After the year 1917 the payments on the sliding scale will increase $280,500 per year, and this, naturally, will induce the steel corporation to begin operations at once and exhaust the ore as rapidly as possible. It is estimated the ore bodies covered in the deal contain 600,000,000 tons of iron ore and that the aggregate payment therefor in royalties and freight will go well to or beyond a billion dollars. The economic conditions involved in this, and in numerous other gigantic industrial transactions in America that are of so recent occurrence as to be quite well remembered, lead to speculation as to what it all means and what is to be the logical outcome. America has come into its right of recognition as a world power politically, and its influence upon the affairs of all nations is now such as cannot be ignored or overlooked in any political instance. Is it not a fair conclusion that it will be also a world power industrially as well, and through force of its industrial achievements in economic mastery and control of capital, resources, methods and other conditions conquer the markets of the world?

Some Elements In Successful Retailing.

THERE are many retail hardware merchants who have one or more competitors almost at their doors and in some cases quite vicious competitors at that, who do a very large bulk of the hardware business of their towns, and never cut an established price, no matter what others in the same field may offer or do. The underlying influence of the successful one in such situations commonly is in the character of the merchant himself, and his methods of doing business. Nothing is so fruitful of patronage, profit and success in retailing as is established character, integrity, and the good name these qualities are sure to earn.

In the long run price is the poorest and cheapest consideration that can be presented in the way of competition, as it cannot in any case vary between competing merchants equally situated with equal qualities considered, to an extent that will overcome inducements that go with good, square, honest merchandising. A cut in price is too often a two edged sword, as it is likely to discredit the goods as well as the merchant who offers them. In the normal retail competitive environment, patrons understand that profits of merchants cannot be unreasonable in percentage and they not only expect to pay this profit but they respect the merchant who insists upon it. The successful merchant is he who regulates his price in accordance with conditions and who gets the price in all cases as an acknowledged right as between buyer and seller. Price then is not the groundwork of the successful one. It lies far deeper.

The cleanliness, orderly arrangement and general attractiveness of a store, have much to do with its success.

The proper arrangement and location of seasonable goods in the store is also an element that induces sales. The completeness of assortment and arrangement of stock attracts patronage and the lighting of a store also has a distinct influence, but beyond all these the character of the man at the head, who regulates and governs the affairs of the establishment, is the prime factor in its success. Whatever conditions prevail in arrangement, lighting, cleanliness, and other matters are such as he has created and his character is reflected in his clerks and attendants and their methods. If he is neat of apparel and agreeable and accommodating, his clerks will be likewise through force of example. If it is his custom—and it is a very excellent custom—to interest patrons directly in the qualities, peculiarities, and methods of making the goods they are seeking, by imparting to them all his knowledge relating thereto, his clerks will or must do likewise. Promptness, evident fairness and scrupulous truthfulness to patrons throughout the entire force are of so vital importance that naturally the skilled merchant who is here depicted insists upon them, as correct business measures, if for no other reason, as also he will insist upon reputability outside the store.

Honest, attractive advertising by whatever method is of course a business requirement that the real merchant never overlooks. And it never fails to bring people into the store. The equipment here outlined does the rest. The reader who will make a mental picture of this brief recital will not seek far for an explanation of the success of some merchants in fields where others fail. To the contrary the disorderly retailer is not a merchant in the true sense of the term, he is a dealer, and his store and his help and his entire affairs will partake of this characteristic. If he is abrupt and surly his clerks must by example partake of the same tendencies. If he deceives by direct intent or by evasion the influence pervades the entire establishment, and if he resorts to cutting prices as a cheap trick of competition with his neighbor he thereby licenses his employees to do likewise. These pictures are not overdrawn. They are startlingly real, they are extremes of course with modified examples lying between them that tend in either direction, the one making for success and the other making for failure in the hardware trade as in all other lines of retail endeavor.

One cannot be both right and wrong on the same proposition and the measure of his bent in the direction of either extreme is the measure of his success or failure in retail merchandising. To be orderly, square, truthful, obliging, prompt and cleanly does not involve an increase of capital. What you have, shape up to the best advantage. Be as presentable personally as you can and let your influence upon the habits, business methods and practices of your help be such as will make them a credit to themselves and to you. In a word be a merchant. *Do business.*

Wire Window Screens Unknown.

An investigator in looking quite generally throughout England has failed to find a single house equipped with window and door screens, such as make life endurable in the United States in the summer months. There are, however, a very few mosquito bars, made of cotton netting, such as were so common in America a quarter of a century or so ago, and were later displaced by wire screens. While insects do not remain so long and are not so numerous as in the United States, it seems as if there should be a favorable opening here for the sale of wire screens and wire netting. The very general use in England of (French) windows that open outward is an obstacle to the introduction of wire screens, but one that could be overcome by having the screens inside the windows, as is not infrequent in the United States, or by having them open into the room as doors do.

The introduction of wire screens and wire netting into the United Kingdom would not be an easy task. No manufacturer of these articles could secure results by sending over circulars or catalogues, arranging with hardware dealers to "stock" his goods, or by casual attempts to secure trade. Quiet, earnest, and persistent work through trained agents would be necessary. Demonstrations of the advantages to follow, and skillful illustrations of the advantages and comfort of a house screened from insect pests, would be required. Advertising attractively worded would be a benefit. The education of the people to the really greater comfort and better health that would follow the use of the wire screens would perhaps be a slow and costly process, but a campaign properly conducted should in the end bring profitable results.

The manufacturer of wire screens or wire netting who would capture the British market must have a care that he offers only a screen that is actually rustless, for the dampness of the British climate at all times, except perhaps in July and August, is certain to rust any screen that is not absolutely rust proof. Such a result would be fatal in a country where durability is an imperative requirement in all articles.

The Youngstown Sheet and Tube Company, of Youngstown, Ohio, has forbidden its heads of departments to employ relatives. Failure to observe the new rule means dismissal.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

I like to read the markets,
And learn about "spot pig,"
"Spot angle" and "spot spelter,"
"Car famine" and the "sig-
Nal higher trend of prices."
But the best of all I see
Is "immediate consumption."
It makes a hit with me.

I like my job. It puts me next to a whole lot of million dollar talk that is cheerful like, as it comes in over the office wire, and I've got so that I can talk millions about as swift as the rest of them, even if I haven't had a whole million dollars for quite a while. It's great, this million dollar and billion dollar talk department in trade journals. It is invigorating, stimulating, infectious and we all like it, even though few among us get hold of the stuff in such quantities except in pipe dreams, but a million dollar pipe dream is a million dollar dream and beats a twenty-three dollar one "going away." I find I can do a whole lot of commercial, financial and industrial "rag chewing" on what I get out of the humble and much perverted market reports. In fact I keep myself so well loaded with incisive terms such as "advancing trend," "firmer tone," "car shortage," "immediate deliveries," "f. o. b. Pittsburg" and "spot pig," that I can hand out a line of pretty well connected talk along these lines that the New York metal exchange would stand for without a quiver. I don't pretend to know what I'm talking about when I'm shooting the market stuff, but as long as it goes and I don't get "called" it helps some.

But the "immediate consumption" figure of speech makes a hit with me, because I know what it means, and this brings to mind a little story that confirms me in my confidence in myself as to my understanding of the term. A little while ago a fat darky woman blew into a drug store when I was present and called for "a nickel's wuth of insec powder." When the clerk began to wrap it up she shouted "nem mine wrappin dat, honey. Des come outer yere an po it down de back er my neck." That's what I call "immediate consumption."

* * *

Some scientists argue that events occur in cycles. As a scientist to the extent that my acquaintances will stand for it, my deductions are that they occur in bunches, and I have before me some press clippings of "even date thereof" that substantiate my theory as it relates to hardware stores. They are not alike. That would be monotonous. They are just little detached episodes in the lives of the principals therto that demonstrate the resourcefulness of one of us and the wonderful luck of the other of us, as for example, Cleary Brothers of St. Louis run a prosperous hardware store and a gang of robbers who had sized up the place envied the money in Cleary Brothers' big safe, so they went after it. They got in all right. They got to where the money ought to be, but the currency had "flew" and but six red postage stamps remained within the receptacle to mark the spot where the money ought to be, or wasn't. Now, what do you think of that? It certainly goes to show that while a big safe is a good bluff, a red sock as a depository has it "skinned many ways."

* * *

At about this same time the lucky hardware dealers experience blew into the lime light. You have heard the expression "a fool for luck," well he's it. He's a well known Kankakee merchant and the dispatches tell that he took a ten pound package of nitroglycerine up on the wagon seat with him and as he drove along whistling the bunch of "nitro" fell off into the roadway, but didn't explode. That's what I call fool luck. Think of it! He is now around telling about it. When he ought to have been distributed over some forty acre farm in a consistency of southern hash. Sarah Banks of Pittsburg didn't lose any stamps and evidently she was far too calculating of mind to drive around with dynamite. Sarah clerked in a hardware store owned by her people. Sarah wasn't stuck on her job and there seemed no regular way of separating herself from it, so she made a midnight bonfire of the hardware establishment and ran away by the light of it.

* * *

The modern physician is essentially a guesser, notwithstanding his education and experience. When he guesses right he pats himself on the back. When he guesses wrong he "saws wood." Since the first physician's diploma was awarded, these people have been guessing on cancer, and as its origin has been carefully traced to more causes than there have been cancers, either some of the doctors' guesses were wrong or else some of the cancerous subjects have got away with more than their share of the causes. The latest guess along these lines was sprung upon the recent national convention of homoepathic doctors at Atlantic City by an eminent New York physician, who made a guess that enameled ware caused cancer, but as it's only a guess there's no reason why people should quit chewing enamelled-ware until more definite information arrives. I'm not prepared to quote the doctor verbatim, because I haven't his paper and because my medical education won't stand for it. But in substance and in my own humble way of telling it this is his theory. In the process of cooking, minute segregated atoms of the enamel dope, break away and get next to the morning cereal and the evening hash, and are carried into the inner works where after looping the loops for a while and taking a rubber at the scenery they begin to get busy puncturing tires and sandpapering the colon and semi-colon and other interior decorations until the owner of the works finds himself up against a good stiff case of cancer, without a chance in the world of getting even on his accident policy. If the doctor thinks he knows more about cancers than I do he may have 'em. "He's the doctor."

Canada's payment of industrial bounties during the fiscal year ending June 30, 1906, was $3,097,206, an increase of $229,056 over the year previous. Iron and steel and steel producers got $2,234,684 in 1904-5 and $2,400,773 in 1905-6; lead producers, $330,645 and $390,197, respectively; binder twine makers, $13,789 and $15,079.

News Siftings

Consul Albert Halstead, of Birmingham, writes that the British consul at Corunna is of opinion that heating apparatus for houses, such as oil or gas stoves, might be introduced with success in that part of Spain, because the houses are almost all built without chimneys, and people suffer considerably during the autumn and winter months from cold.

Foster's Peerless four-hole steel cook is one of the season's dressiest and best appointed steel cook offerings. It is in complete steel body built in Wellsville polished steel with a good big oven, an ample sheet flue system, a cast encased enamelled flushed topped reservoir and many other excellent features that commend it highly. The oven is a complete one and is well braced into position. The excellence of the pattern and the quality of those goods as turned out by The Foster Stove Co. are attracting much attention in the trade. Foster Stove Co., Ironton, O.

What is designated a "snap for wide awake range dealers" is in an enticing offer made by Wm. G. Willard, Room 28 Willard Building, St. Louis, Missouri, in which he states as follows: "I am going to sell one thousand 400 lb. six-hole steel ranges, finished in Japan, for not over $15.00 each." Mr. Willard, it will be known, is an enterprising individual. In the range of his business methods, there is no time when he has not something in the shape of an attraction, either in price or in some other direction, to offer to all who are in the market to buy. As a pusher and a party with enterprise to burn he is certainly to be commended. Inquiries addressed as above will receive prompt attention.

We learn from the Faultless Mfg. Company, of St. Charles, Ill., that their Aerflame Steel Range is meeting with the approval of dealers and home users to an extent that at present is keeping them exceedingly busy. The hot blast arrangement of the fire box, and the peculiar advantages of numerous other features of individuality in the range, together with the splendid and artistic appearance of the structure, are elements that are quite certain to not only create a superior demand for the range but also to increase the demand and hold the trade. It will be worth while for enterprising dealers to keep in touch with the "Faultless" company and its productions. When writing, kindly mention THE AMERICAN ARTISAN.

Champion hot blast stoves are finding much favor in the stove trade. They are in the "oak" type with excellent ornamental dressing and as workers they are planned to excel. The hot blast device is ingenious and simple. It is a hollow ring let into the structure at the top of the fire pot section. At the front two screw registers regulate the inlet of air. Inner perforations at the fire pot top line let this air upon the fire surface and perfect the combustion. A vast amount of fuel is thus saved and a vast amount of clinging soot is avoided. As a heater the Champion hot blast is a pronounced success. The grate feature also is interesting. It is a ring frame with four triangular grate sections let into it and in action the entire fire base is thereby changed and renewed at will. The ash pit is quite large and the entire grate section including the outer ring is readily removable. The design and construction of the stove is excellent. Made by the Champion Steel Range Co., Cleveland, Ohio.

The "Reliable" steel range by The Schneider & Trenkamp Co. of Cleveland, O., is a cleanly built and excellently appointed product that possesses individual meritorious features well worth considering. It sets well up on legs clear of the floor. It presents an array of smooth and rounded surfaces that are easily cleanable and is built in measurements that commend themselves at once to people who have to do with ranges at home. Structually it is firm, strong, durable and modern and the equipment and ornamentation are wholly in keeping with the trade's wishes. It runs in a six-hole anchor plate and is excellently ornamented in nickeled fixtures. Made in all usual steel range combinations. Address as above for literature.

Some of the finest stove and range patterns in the known world are among the productions of the Smith & Anthony Company, of Boston, Massachusetts. Not only are the patterns of superior merit, artistically considered, but the iron products that come from these patterns are trimmed up and shaped and fitted in so superior a manner as to produce stoves and ranges of all grades that come from their works, that are of most excellent construction and of clean, good, rich, beautiful and wholesome appearance. Hub stoves are well known throughout the trade of the entire country, not only for their beauty but also for their all-around goodness. Tasteful catalogues and other literature relating to Hub stoves, ranges and heaters may be had by addressing Smith & Anthony Company, 48-54 Union street, Boston, Massachusetts.

A U. S. consular report from England says of conditions in England: "Manufactured leads have reached a price which has not been touched since the Franco-German war. Red lead now stands at $101 a ton, though white lead is not quite so high in proportion. Sheets are $99.78 a ton, and pigs are quite scarce at $92.46. These are high prices, and they seem to be justified by the prevailing scarcity of raw lead. The imports into London for September have been only a fifth of the normal average, while statistics for August show a marked shortage in supplies. It is hardly probable that this state of things can speedily change, and so manufacturers look for a continuance of high prices. In these circumstances lead producers, both at home and abroad, promise to have everything in their favor for some time to come, and as a result the English lead-mining industry is expected to take a new lease of life."

DIXON'S GRAPHITE.

There comes to hand a very neat blotter humorously illustrated and bearing a September card of the calendar. It is a catchy trade reminder that is used by the Joseph Dixon Crucible Company of Jersey City, New Jersey, calling attention to their American Graphite pencils. This method of keeping before the merchant the very excellent line of goods manufac-

tured by this company is sure to bring good results. It is something useful for the desk of the dealer and serves a very useful purpose to the manufacturer. Write for some of these blotters. They will be sure to come in handy at any time and when writing kindly mention THE AMERICAN ARTISAN.

JEWELS.

The George M. Clark & Co. division of the American Stove Co. have two excellent features outside of their regular gas and gasoline stove line that are worthy of the attention of stove dealers. These are, a modern high class coal burning steel range that runs to excellent lines, and in point of equipment, quality of materials and excellence of methods, workmanship and fittings and also in point of ornamental details it is of most thorough order. It is known as the "Jewel" steel range. The other feature which relates to heating is their "Jewel" heater in tidy sheet cylinder form carrying the down draft principle and other highly modern features. It is light and strong and has an unusually large and conveniently located feed door and a large full width ashpan. In its ornamentation much good taste is shown in that it is sufficiently but not extravagantly dressed in nickel, the ornamental black iron detail which is really very excellent, being depended on for ornamental need and with excellent results. The nickel occurs in side footrests, door panels, top ring, swing cover and urn ornaments. It is a tidy, tasteful and altogether consistent creation. By George M. Clark & Co., Chicago. Catalogue on application. Kindly mention THE AMERICAN ARTISAN.

MICA.

When hardware and stove dealers think of mica they commonly think of Munsell, for the reason of the prominence of the name in connection with the mica industry of the country. No concern is so well equipped with the needed stock and a keen knowledge of stove men's needs as is the house of Eugene Munsell & Co., and no other house gives this branch of the mica business as careful and satisfactory attention in the matter of accurate cutting and measurements, selection, division and manipulation of raw stock and experience in grouping sizes that make up evenly selling combination assortments for retailers' uses and retail selling. For all classes of mica information address them at 218 Water street, New York, or 358 Dearborn street, Chicago, and mention THE AMERICAN ARTISAN.

QUALITY STOVES AND RANGES.

Among the great variety of steel ranges manufactured by the Quality Stove and Range Company of Belleville, Illinois, is their Royal Quality Square and High Closet Range, which is built on the lines most approved in the highest accomplishment of range making. They are suited to the use of any kind of fuel, soft coal, hard coal, coke or wood and give equal satisfaction with all. Every adjunct required in the manufacture of the up to date range will be found in the Royal Quality Square Range. The Quality Company also manufactures the same range with reservoirs, an additional convenience which is much in demand. The major parts of these ranges are made of Wellsville Polished Blue Steel, bottoms extra heavy and well braced, sectional fire box linings, reversible and removable duplex grate, wood extension boxes, and high grade nickel plate and porcelain lined reservoirs. The Quality goods should be in the hands of every dealer. Send for catalogue and price-list and when so doing please mention THE AMERICAN ARTISAN.

YANKEE DAMPERS.

Yankee Dampers are, as usual, popular this season. Their lightness, durability, convenience of adjusting and the advantage of the Yankee Clip, which accompanies them, are strong features in their favor.

Yankee Dampers are blanked out of sheets of good, stiff, heavy gauge steel, in various forms to suit various requirements. The suspending rod is a very simple device, that is easy to insert into position, and also easily removed when occasion requires. It also has the advantage of having a sharp pointed end that will do all the piercing that is necessary in putting the damper in a stove pipe. All ordinary sizes and shapes are provided, running into round, oval, ellipse, semi-triangular, and other such patterns as may be required by the trade.

Yankee Dampers are in most satisfactory favor with the stove and furnace trade throughout the country. They are good dampers and for sale everywhere, and that is all there is to the whole story. Complete information, catalogue, etc., may be had by addressing the S. M. Howes Company, 40-46 Union Street, Boston. Kindly mention THE AMERICAN ARTISAN when writing.

DOE-WAH-JACK PICTURES.

The Doe-wah-jack pictures that have for some time been published serially in THE AMERICAN ARTISAN, and which relate to the products and the history of Round Oak Stoves and Furnaces, by the P. D. Beckwith Estate, of Dowagiac, Michigan, have awakened a great deal of interest in the stove trade, not only because of the excellence of the pictures themselves and the trend of history that runs with them, but also because such a large proportion of the stove dealers of America are more or less directly interested in what is being done in the Round Oak line.

There are few, if any, stoves in the world that have stood all tests and come out of the ordeal with increased popularity to the extent that the Round Oak heater has done. The line including stoves, ranges and furnaces, as offered by the company, has earned a thoroughly well deserved popularity that certainly would never have been accorded were it not for the fact that every article sent out from the works has had the utmost care in making, in inspection and supervision. A very nice class of trade literature relating to these goods may be had upon application. Address Estate of P. D. Beckwith, Dowagiac, Michigan.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

The American Wire Brush Company, of New York, recently incorporated. Capital, $50,000.

The American Tack Company has been organized with a capital of $100,000. A plant will be provided for the company at Racine, Wisconsin.

The Chas. Nelson Manufacturing Company, of St. Louis, Missouri, are to complete a two-story refrigerator factory in dimensions 40x83 feet.

The Rempke Schidler Co., recently incorporated with a capitalization of $5,000, will engage in the manufacture of washing machines at Kankakee, Ill.

The Dazey Churn Manufacturing Company is the title of a recently incorporated concern which will locate at St. Louis, Missouri. Authorized capital, $60,000.

The Mason Wrench & Tool Company has been incorporated with an authorized capital of $12,000. It will operate in Chicago and will manufacture wrenches and specialties.

The Schatt Morgan Cutlery Co., of Titusville, Pa., has in contemplation a large addition to their plant at Titusville. We understand that plans and specifications have already been completed and accepted and that building will be begun as soon as practicable.

The Wm. Henry and R. E. Bell Hardware Company of Fort Worth, Texas, advise us their retail hardware business was disposed of wholly in August last to Wm. Henry & Co., an incorporated company at Fort Worth, who will conduct an exclusively retail hardware business on Houston street, between 9th and 10th streets. There is no connection between the new concern and the Wm. Henry & R. E. Bell Hardware Company, whose affairs for the future are to be strictly in wholesale hardware.

Invitations to the reception tendered to the National Hardware Association by the American Hardware Manufacturers' Association have gone forth. The enclosures are excellent in conceit and execution. The text is as follows:

'The American Hardware Manufacturers' Association requests the honor of the present of ———— and ladies at a reception tendered to the National Hardware Association at the Marlborough-Blenheim Hotel, Atlantic City, N. J., Wednesday, October seventeenth, nineteen hundred and six, at nine o'clock."

Maher & Son, of Creston, Iowa, offer a $500 guarantee that the pure copper cable conductor which they manufacture is a sufficient protection against danger from lightning. They claim to have the best and heaviest copper cables in the market and that their prices are below those of many other concerns that are offering, what they state, as an inferior cable. They also claim the record for having cut down the prices of lightning rods in general. A very neat catalogue and full information will be had by applying therefor by mail. Kindly mention THE AMERICAN ARTISAN.

BERGER'S HUSTLER.

The current issue of Berger's Hustler, an exceedingly attractive and apparently effective periodical, issued by and in the interest of The Berger Manufacturing Co., of Canton, Ohio, is devoted to light and lighting, and essentially so as relates to the Berger lanterns. Outside of compact and pungent trade reference the bright little volume leads into fields of interest relating to lighting, historical and otherwise in the abstract. It is cleverly interesting throughout, and its pithy character is such as appeals to anyone who appreciates a clean, good and interesting example of special literature. Going into the matter of light and lighting there are articles captioned "Lighting Methods Up to Date," "Use of Night Lights," "The Electric Light," "The Invention of Lamps," "How to Avoid Poor Lights," "The Demand for American Lanterns," "Tallow Candles and Lanterns," and a variety of others that are exceptionally well chosen and excellently written. It is a tidy and perfectly printed little volume of eighteen pages. In the very perfect half-tone illustrations are included a large one of the McKinley national memorial at Canton. Excellent portraits of Mr. Ed Langenback, general manager, Mr. Frank A. Schwertner, sales manager, and Mr. George E. Barnes of sales department, and some clever small pictures used in illustrating the evolution of lighting devices. Several pages are devoted to illustrations and descriptions of Berger lanterns, the illustrations of which are thoroughly good and are accompanied by clear common sense and comprehension. The little volume is wholly good from start to finish, and the hardware dealer who fails to see it misses something. Copies may be had for the asking. Address The Berger Manufacturing Co., Canton, O,, and kindly mention THE AMERICAN ARTISAN.

JOSEPH F. GLIDDEN.

Mr. Joseph F. Glidden, of De Kalb, Illinois, the original inventor of barb wire for fencing, died at his home in De Kalb on October 9, at the age of 93 years. Through a course of circumstances it came about that Mr. Glidden originated the barbed wire as a rural home requirement, and little if any thought was given to it as a commercial or industrial factor until at a later period others engaged in its manufacture clashed vigorously, and the origin of the invention was traced back to Mr. Glidden. A sharp legal controversy, in which monster establishments were engaged, came about, which finally reached the United States Supreme Court, where a very broad decision vested in Mr. Glidden valid rights under foundation patents. As a result a huge barb wire quarrel was settled, and Mr. Glidden speedily became a many times millionaire.

De Kalb knew Mr. Glidden intimately for over sixty years, and the esteem in which he has been held makes his loss to his community a serious one.

PERFECTO GLOSS ENAMEL.

A superior article of enamel for interior use is made by the Enterprise Paint Manufacturing Company, Van Buren and Peoria streets, Chicago, in great variety of colors. It produces a beautiful finish and is easily applied. It has a beautiful gloss that lends a striking effect to any surface to which it may be applied. It can be used upon walls that have been kalsomined with good effect, and acts as a preservative as well as a beautifier on any surface. Full directions for its use are given in sample sheets issued by the Enterprise Paint Company, which will be freely furnished upon request. When writing kindly say that your attention was called to this by THE AMERICAN ARTISAN.

THE "CLEANER" BEATER.

Among the household utilities that are essential requirements of every well-ordered home, and which are so considered in well-regulated families, the rug or carpet beater occupies an important position. It is one of the indispensables. It don't cost much. If a good one it may go down to future generations. It saves its cost in real labor every time it is used, and moreover it not only performs its functions perfectly but more than saves its cost in the wear and tear of rugs and carpets that it is called upon to "wallop." Of the innumerable devices designed to the same end, from the section of garden hose to the hickory limb and on up through a range of the specially designed contrivances for the purpose, nothing appears quite so complete and desirable as the "Cleaner" shown in the accompanying picture. It is light, strong, durable and flexible. It has an excellent staying grip, and besides the uses for it above indicated, it is a little wonder for beating out clothing, furniture, carriage robes, mattresses and pillows. Made in tinned, coppered or galvanized wire. Ask about it. It is known as the "Cleaner." Write Holt-Lyon Co., Tarrytown, N. Y. Your jobber doubtless keeps it but write anyway and mention THE AMERICAN ARTISAN.

HENRY DISSTON & SONS' CATALOGUE.

What is available to the entire world in the way of saws is more clearly to be comprehended by an examination of the current illustrated catalogue of Henry Disston & Sons than by any other source of information we are aware of. For fifty years past the company, and its predecessors in the same establishment, has been the prime factor in American saw making. In it all saw interest has centered during all these years, and the world owes to the Disston company much for its conspicuous part in the development of the saw from its crude form and limited variety of preceding years to the wonderful state of perfection and practically limitless variety of the present day. The few crude forms of saws known to our ancestors, although in their time considered ample in variety and quality, would collectively make but a sorry showing as against the varied demand of saw-using artisans of the twentieth century.

To the layman the variety of saws illustrated and critically described in the current catalogue of Henry Disston & Sons catalogue now before us would disclose a variety of saws and a variety of purposes for which saws are made that to him would surpass all understanding. The saw catalogue of Henry Disston & Sons, of the issue of July, 1906, is now before us. It is a tasteful cloth-bound volume, 7½x10 inches in size, and contains 204 compact and excellently arranged pages. It relates to saws, saws, saws, not monotonously, but in a manner that is exceedingly interesting in every way. From the standpoint of cataloguing it is about as perfect and complete as could be desired. Considerably over five hundred excellent illustrations of saws and accessories are shown, together with complete numerical, descriptive and price data, and when it is remembered that nearly every saw or other picture is presented to typify a wide range of sizes and numbers the range of separate sizes and varieties involved becomes marvelous indeed.

In compactness of text, arrangement of illustrations and comprehensiveness of the cataloguing and references the catalogue is as clean, convenient and practical an example of catalogue work as could possibly be desired.

Aside from the saw features the other articles of the company's line, such, for example, as trowels, cane knives, machetes, post hole diggers, rules, squares and gauges, screwdrivers, levels, files, and a few other specialties, are accorded the same careful consideration in cataloguing as the saws.

The catalogue may be had by dealers by addressing Henry Disston & Sons, Philadelphia, Pa. In writing, kindly mention THE AMERICAN ARTISAN.

WISCONSIN RETAIL HARDWARE CONVENTION.

The following notification has been received from Henry Daniel, Jr., secretary of exhibit committee of the Wisconsin Retail Hardware Association:

"Milwaukee, Wis., Oct. 1, 1906.

"The eleventh annual convention of the Wisconsin Retail Hardware Association will be held February 6, 7 and 8, 1907, at the Public Service Building, Milwaukee, Wis. Jobbers and manufacturers can now secure suitable space by writing to the secretary of the exhibit committee. Three large halls have been secured for the purpose, with elevator service, electric light, and steam heating. Applications for same should be sent in at once. The last convention was a great success. All spaces were filled with fine exhibits, which were admired by all. This will be the largest hardware meeting ever held in the state. We want you all to come. Get in line and push a good thing along.

"HENRY DANIELS, JR., Secretary."

STANDARD FISHING TACKLE.

Pflueger's Fishing Tackle, through persistent effort and careful watching of details by the manufacturers, has become a standard of quality with dealers and users wherever goods of this general class are known.

There are so many standard articles in fishing apparatus and so many newly added features to be taken care of and made known in a business of this character that a very perfect organization, both in the factory and the office where they are made is distinctly essential. At the present time there is no concern engaged in this kind of business in America that is so complete and so extensive in equipment for the purpose intended as is the Enterprise Manufacturing Company, of Akron, Ohio. There are few, if any, hardware jobbers who do not carry the line and keep it well up to the front among their standard articles. Jobbers are, of course, more or less prepared to furnish all the company's literature, but requests going direct to the factory for such literature will receive very careful attention. When writing, kindly mention THE AMERICAN ARTISAN.

SHEARS AND SCISSORS.

A pair of shears may be most excellent as to quality of material and still be unsatisfactory, in fact quite worthless, if the pivot arrangement is such as will loosen or tighten or become deranged in some other way. Everybody who uses a shear is aware of this fact, and also of the fact that an ordinarily made shear has a tendency to become useless for the reasons here indicated.

In the pair of shears that has been brought to our notice, a screwless, spring-set device is provided to take care of the pivot and keep the tension at a fixed point that will allow the two blades to work in close contact and with perfect results. The device as stated by the makers offers these advantages for the shears with which it is used, namely:

It never wears loose at the joint; blades always held together automatically with just the right spring tension; pivot free to rotate, forming roller bearing; largely self-sharpening; handy to take apart, and tension adjustable.

The shears made under this patent are offered by the Davies Automatic Shear Company, 41 Maiden Lane, New York. They are very attractive goods, and their merit should be known to all hardware dealers. Information and catalogue furnished on application. Kindly mention THE AMERICAN ARTISAN.

CONVENTIONWARD.

A special train of prominent and wholly worthy hardware people will be pulled out of Chicago on Monday, Oct. 15th, destined for Atlantic City, N. J., where the American Hardware Manufacturers' Association and the National Hardware Association meet in convention covering the dates of Oct. 17-18-19th, at the Marlborough Blenheim.

The contingent going by this train is of representative western hardware people, delegates and others, who in their respective callings represent prominent western hardware and other cognate interests. Most excellent arrangements have been provided for the convenience and comfort of the party during the journey and a pleasant trip is bespoken. Doubtless all that is required in the nature of a guarantee of a well managed party and a real good time will be found in the fact that Mr. W. H. ("Pop") Bennett is the committee in charge.

In so far as is known at this writing the roster with the names of concerns represented, respectively, are indicated in the following list.

D. B. Woodbury, of Stanley Works, Chicago, Ill.
V. E. Hamilton, of Huber & Kalbach Co., Oskaloosa, Ia.
Palmer W. Holmes, of Lalance & Grosjean Mfg. Co., Chicago, Ill.
Chas. M. Hurst, of Morehouse, Wells & Co., Decatur, Ill.
D. O. Macquarrie, of Corbin Cabinet Lock Co., Chicago.
W. G. Miller, of Ohio Tool Co., Chicago, Ill.
S. R. Droescher, of New York City, N. Y.
Daniel Stern, of THE AMERICAN ARTISAN, Chicago, Ill.
F. W. Heitman, of F. W. Heitman Co., Houston, Texas.
C. L. Echwartz, of Lee Hardware Co., Salina, Kan.
W. C. Stephens, of P. & F. Corbin, Chicago, Ill.
W. L. Sanford, of E. C. Atkins & Co., Chicago, Ill.
Daniel Simonds, of Simonds Mfg. Co., Chicago, Ill.
Mr. and Mrs. W. J. Wetstein, of American Sheet & Tinplate Co., St. Louis, Mo.
W. J. Gold, of Chicago Hardware Co., Chicago, Ill.
F. M. Baldwin, of Baldwin Forging & Tool Co., Columbus, O.
M. L. Corey, of Nat'l Retail Hdwe. Assn., Argos, Ind.
E. M. Bush, Natl. Retail Hdwe. Assn., Evansville, Ind.
S. R. Miles, of the Executive Committee Natl. Retail Hdwe. Assn., Mason City, Ia.
W. F. Wallace, of The Bulletin, Argos, Ind.
J. D. Warren, of J. D. Warren Mfg. Co., Chicago, Ill.
Mr. and Mrs. J. G. Bauer, of W. A. L. Thomson Hdwe. Co., Topeka, Kan.
J. B. Silliman, of Blish, Mize & Silliman Hdwe. Co., Atchison, Kan.
Mr. and Mrs. G. W. Welles, of Kelley, How, Thompson, Duluth, Minn.
T. G. Walthers, of Hackett, Walthers, Gates Hdwe. Co., St. Paul, Minn.
Mr. and Mrs. T. J. Usher, of Russell & Erwin Mfg. Co., Chicago, Ill.
Mr. and Mrs. W. L. Harvey, of Garland Nut & Rivet Co., Chicago, Ill.
J. A. Warner, of Wyeth Hdwe. & Mfg. Co., St. Joseph, Mo.
Geo. J. Adams, of Norwalk Lock Co., Chicago, Ill.
Mr. D. W. Simpson, of Wilcox Mfg. Co., Aurora, Ill.
W. C. Dickey, of Ward-Dickey Steel Co., Indiana Harbor, Ind.
Mr. and Mrs. D. A. Merriman, of American Steel & Wire Co., Chicago, Ill.
R. T. Lund, of Dover Mfg. Co., Canal Dover, O.
Arthur Brittan, Chicago, Ill.
F. W. Fee, of Corbin Screw Corporation, Chicago, Ill.
Mr. and Mrs. G. W. Trout, of Trout Hdwe. Co., Chicago, Ill.
Mr. and Mrs. H. A. Taylor, of American Screw Co., Chicago, Ill.
Mr. and Mrs. D. B. Gann, Chicago, Ill.
Mr. and Mrs. E. A. Hoffman, of Hoffman Hdwe. Co., Los Angeles, California.
Mr. and Mrs. C. D. Clark, of Clark, Quien & Morse, Peoria, Ill.
Fred Ford, of Eagle Lock Co., Chicago, Ill.
F. J. Camp, of Borwn-Hurley Hdwe. Co., Des Moines, Ia.
Geo. Boole, of Western Hdwe. Co., Seattle, Wash.
Mr. and Mrs. E. M. Kemp and Miss Kemp, of Wabash Screen Door Co., Chicago, Ill.
W. H. Bennett, of Lawson Mfg. Co., Chicago, Ill.

Mr. and Mrs. J. A. Roberts, of Pittsburg Steel & Wire Co., Chicago, Ill.

Mr. and Mrs. C. C. Philbrick, of Foster, Stevens & Co., Grand Rapids, Mich.

W. W. Webber, Secy. Southern Hardware Jobbers' Assn., Fort Smith, Ark.

F. E. Cutler, of Cutler Hdwe. Co., Waterloo, Ia.

A. T. Simonds, of Simonds Mfg. Co., Chicago, Ill.

C. F. Braffett, of Sidmonds Mfg. Co., Chicago, Ill.

Walter W. Birge, of St. Louis Shovel Co., St. Louis, Mo.

S. D. Burrell, of St. Louis Shovel Co., St. Louis, Mo.

H. G. Reynolds, of Reynolds Wire Co., Dixon, Ill.

Mr. and Mrs. Don McMillan and daughter, Chicago, Ill.

Mr. and Mrs. C. T. Johnson, of Dover Mfg. Co., Canal Dover, O.

Mr. and Mrs. J. C. Kroner, of La Crosse Corrugating Co., La Crosse, Wis.

W. H. Eaton, of American Sheet & Tin Plate Co., Chicago, Ill.

Mr. and Mrs. A. A. Ainsworth, of The Iron Age, Chicago, Ill.

Mr. and Mrs. Frederick Pease, of Charles Parker Co., Meriden, Conn.

A CONVENTION ENTERTAINMENT FEATURE.

An interesting feature of the entertainment program of the hardware conventions to occur at Atlantic City on Oct. 17-18-19 will be a social card party which promises much in the way of enjoyment for all concerned. Mrs. George W. Trout of Chicago, who is a most efficient leader in the entertainment committee, has much to do with arranging the event, and a successful issue is assured.

A very generous list of contributors of awards for successful contesting players has come to the front spontaneously as it were. The list is as follows, as far as learned at this writing:

American Steel & Wire Company, Chicago, Ill.
American Fork & Hoe Company, Cleveland, Ohio.
E. C. Atkins & Company, Indianapolis, Indiana.
American Wringer Company, New York City.
American Sheet & Tin Plate Company, Pittsburg.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Bissell Carpet Sweeper Company, Grand Rapids, Mich.
Bronson-Walton Company, Cleveland, Ohio.
Boss Washing Machine Company, Cincinnati, O.
Belding-Hall Mfg. Company, Belding, Michigan.
Bullard Automatic Wrench Company, Providence, R. I.
Challenge Cutlery Corporation, Bridgeport, Conn.
Clyde Cutlery Company, Clyde, Ohio.
Cleveland Twist Drill Company, Cleveland, Ohio.
Corbin Screw Corporation, New Britain, Conn.
Caldwell Mfg. Company, Rochester, N. Y.
John Chatillion & Sons, New York City, N. Y.
Coldwell Lawn Mower Company, Newburgh, N. Y.
Henry Disston & Sons, Philadelphia, Pa.
Dana Mfg. Company, Cincinnati, Ohio.
Dover Mfg. Company, Canal Dover, Ohio.
Diamond Saw & Stamping Works, Buffalo, N. Y.
Garland Nut & Rivet Company, Pittsburg, Pa.
Hamilton Rifle Co., Plymouth, Mich.
Heller Brothers, Newark, N. J.
Hopkins & Allen Arms Co., Norwich, Conn.
Humason & Beckley Mfg. Company, New Britain, Conn.
Irwin Auger Bit Company, Wilmington, Ohio.
Keuffel & Esser Co., New York City, N. Y.
Geo. W. Korn Razor Mfg. Co., Little Valley, N. Y.
Landers, Frary & Clark, New Britain, Conn.
Lovell Mfg. Company, Erie, Pa.
Lufkin Rule Company, Saginaw, Michigan.
Meriden Cutlery Company, Meriden, Conn.
Manning, Bowman & Company, Meriden, Conn.
David Maydole Hammer Company, Norwich, N. Y.
McCaffery File Company, Philadelphia, Pa.
Miller Bros. Cutlery Company, Meriden, Conn.
National Stamping & Enameling Co., Baltimore, Md.
Chas. Morrill, New York City.
Mack & Company, Rochester, New York.
National Sweeper Company, Marion, Ind.
National Brass & Iron Works, Reading, Pa.
North Bros. Mfg. Company, Philadelphia, Pa.
Ohio Tool Company, Columbus, Ohio.
Pike Mfg. Co., Pike, N. H.
Charles Parker Co., Meriden, Conn.
Pittsburg Steel Company, Pittsburg, Pa.
Pullman Mfg. Company, Rochester, N. Y.
Fayette R. Plumb (Frankford), Philadelphia, Pa.
Rome Mfg. Co., Rome, N. Y.
Romer Axe Mfg. Company, Dunkirk, New York.
Reading Hardware Company, Reading, Pa.
S. L. & G. H. Rogers Company, Hartford, Conn.
William Schollhorn Co., Bridgeport, Conn.
Simonds Mfg. Company, Fitchburg, Mass.
H. D. Smith Company, Plantsville, Conn.
U. S. Stamping Company, Moundsville, W. Va.
Stanley Rule & Level Company, New Britain, Conn.
Supplee Hardware Company, Philadelphia, Pa.
Savage Arms Company, Utica, New York.
Wm. Vogel & Brothers, Brooklyn, New York.
L. & I. J. White Company, Buffalo, New York.
Whitman & Barnes Mfg. Co., Chicago, Ill.
Wood Shovel & Tool Company, Piqua, Ohio.

The American Sheet & Tin Plate Co. also donate all the score cards.

North Brothers Mfg. Co. furnishes the ice cream.

The McCaffery File Co. will present a pretty nail file to each lady present and The Garland Nut & Rivet Co. will provide the scoring pencils to all contestants.

WILLIAM H. COLE.

William H. Cole, for many years intimately known to the trade through his long connection with the Tower Lyon Co. of New York and latterly its treasurer, has recently formed a connection with Oliver Bros. Purchasing Co. of 127 Duane street, New York, buyers for jobbers and contractors in hardware, iron, steel, mining, railway and mill supplies. An office supervision and a visiting arrangement with out-of-town patrons are included in his plans. An extensive acquaintance and popularity in the field indicated bespeak for him continuing success and prosperity.

VICTOR COAL HOD.

Probably no one single brand of coal hod is so well known to the entire trade of the country as is the "Victor." The two prime reasons for this lie in the facts that the "Victor" coal hod is a most excellent affair for the purpose for which it is intended, and for the reason that its makers have not hesitated in coming right up to the front with advertising that has assisted in popularizing it. While in all other respects the "Victor" hod is quite up to, or beyond the usual devices of its kind, in form and general acceptability, it possesses the very superior merit above all others in having a bottom that is lasting and wear resisting and that will continue to be in good order through several seasons of hard use. Coal hod buyers will do well to keep in touch with the "Victor," made by the Victor Stamping Company, Broadway, Loveland, Ohio. Literature and price quotations supplied, of course, on application. Kindly mention THE AMERICAN ARTISAN.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Flora, North Dakota—Capitalized at $25,000, the Flora Mercantile Company. Hardware and machinery.

Max, North Dakota—Steinhaus Brothers. Farm Implements and hardware.

Reidsville, North Carolina—Whitamore & Mobley Hardware Company; capital $48,000.

San Francisco, California—W. J. Donnelley has opened a new hardware store at 11 Stockton street.

San Francisco, California—The Standard Hardware and Tool Company have opened a new hardware store at 909 Market street.

San Francisco, California—The Union Hardware Company is the name of a new store opened at 736 Polk street.

Seattle, Washington—The Crockett Company, hardware and implements, has been incorporated.

Pocatello, Idaho—The Leader Company succeeds the Marshall-Belcher Hardware Company. The new firm was incorporated for $25,000.

Colville, Washington—The Hunt Hardware Company was incorporated.

San Francisco, California—Western Art Metal & Wire Company; capital stock $25,000.

San Francisco, California—Pacific Tool & Supply Company; capital stock $500,000.

Houston, Texas—Johnson-Gray Hardware Company of Randall county; capital $50,000.

Dover, Delaware—Monossen Hardware Company to engage in buying and selling, vending and patenting hardware; capital stock $13,000.

BUSINESS CHANGES.

Bethany, Missouri—Andrew Thompson purchased the hardware store and goods of Chas. Golding.

Dickinson, North Dakota—Gus. Crams has purchased the hardware store of Senour & Langey and will take possession January 1st.

Tower, Michigan—B. V. Walton sold his branch store to W. H. Rutan.

York, Nebraska—Mr. Hyder has sold his stock of hardware to A. E. Grant of Albany, New York.

Mt. Vernon, Indiana—Jas. S. Evans has purchased an interest in the Starck Hardware Company.

Owosso, Michigan—Pearce & Gerow have dissolved partnership. Mr. Pearce will continue the business alone.

Winnipeg, Manitoba—W. A. Sturdy has purchased The Hartney Hardware Company.

Chrisman, Illinois—A. L. Busbey and B. W. James have purchased the Lank Hardware store.

Bronson, Iowa—Philip & Howard Onstot have bought David Law's interest in the hardware business of Law & Onstot.

Roseburg, Oregon—A. J. Bellows has purchased the hardware store of Bead & Culver.

Odessa, Washington—The Odessa Mercantile Company succeeds the firm of Koth & Son Hardware Company.

Idaho Falls, Idaho—N. D. McCutcheon & Company, Ltd., have succeeded to the business of G. E. Blocky & Company.

Central City, Nebraska—W. T. Morris has purchased the hardware store of Stephen & Meyer.

Blackton, Iowa—J. Conner has purchased the hardware sotck of Ed. Nation.

Portsmouth, Iowa—C. C. Cooper has purchased the hardware business of M. J. Shafer.

Jansen, Nebraska—Thiessen & Company have sold their hardware business to A. M. Friesen.

Bentley, Iowa—Heft & Timberman have been succeeded in the hardware business by P. M. Heft.

Idaho Falls, Idaho—The Griffith Hardware & Plumbing Company has sold its business to the Idaho Hardware Company.

Fairlie, Texas—J. E. Roderick has sold his hardware store to R. A. Rountree.

Joplin, Texas—J. B. Frank has succeeded to the hardware store of J. W. & J. B. Frank.

Leeton, Missouri—S. I. Major & Company have purchased the business of the Thieman Hardware Company.

Norman, Nebraska—S. I. Major & Company have purchased the business of the Thieman Hardware Company.

Norman, Nebraska—Henry Siebrass has sold his hardware store to F. W. Hoobler.

Strawn, Kansas—Chas. Thrall has purchased an interest in the hardware store of A. J. Baxter.

Aldridge, Missouri—Jones & Hamby have purchased the hardware store of Jones & Stockbridge.

Kimball, Kansas—V. S. S. Kelsey has purchased the business of the Kimball Hardware Company.

Dyersville, Iowa—The Lund Land Company have purchased the Armstrong Hardware Company's business.

Minooka, Illinois—W. H. Kaffer has purchased the interest of M. L. Kaffer in the firm of Kaffer Brothers, hardware and farm implements.

Zumbrota, Minnesota—C. O. Wheeler, who recently purchased the hardware stock of Batson & Batson, has sold the entire stock to F. A. Meyer. Mr. Meyer will ship what is not sold to Farmington, where he is in the business.

Seneca, Illinois—Frank R. Chandler has disposed of his hardware business to E. J. Ferguson of Pontiac, Ill.

MISCELLANEOUS.

Tallulah, Louisiana—Burglars entered the store of the Tallulah Hardware & Furniture Company.

Shelbyville, Illinois—Benjamin Buzzard of Lakewood is moving a hardware stock from Greenup here.

Pine Beach, Virginia—The Murt Hardware Company's hardware store was destroyed by fire.

LaPorte, Indiana—The hardware firm of A. F. Rathbun & Co. will soon go out of business.

Wadseboro, North Carolina—Planters' Hardware Company and T. B. Henry Hardware Company suffered heavy loss due to fire.

Urbana, Illinois—Chenoweth's Hardware store was burglarized.

Spokane, Washington—Childs Bros. & Day have dissolved partnership.

Redding, California—The McCormick-Saeltzer Company suffered a slight loss by fire last month.

San Francisco, California—G. M. Hickman is building a large warehouse as an addition to his Mission street hardware store.

San Francisco, California—The Palace Hardware Company will open a downtown store on Market street, opposite the Palace Hotel.

Dayton, Oregon—J. L. Castle & Company suffered a fire loss.

Cottage Grove, Oregon—Miller & Corbett have opened a new hardware store.

Pendleton, Oregon—It is reported that A. Kunkel, hardware and implements, is to move to Spokane, Washington.

Eureka, Montana—The McIntosh Hardware Company of Kalispell has opened a branch hardware store here.

San Francisco, California—The E. D. Vaut Hardware Company has moved to downtown location at 108 Market street.

San Francisco, California—W. A. Etting, formerly at 110 Sixth street, has built a new store at 2442 Mission street.

Willard, Kansas—The hardware and implement stock of Winters, Rogers & Company was destroyed by fire.

Abbott, Texas—The warehouse of Dawson Brothers, hardware dealers, has been destroyed by fire.

Lancaster, New York—Mr. Frank Wintermantel has leased the store of M. Schwartz on West Main street, where he will open a hardware store.

Greenville, South Carolina—Markley Hardware & Carriage Mfg. Company is completing arrangements for the construction of a warehouse.

Madison, Indiana—R. W. Clements of the Madison Stove Company has made an assignment. Liabilities, $17,000. Assets, $30,000.

Chester, Ohio—J. H. Fowler will remove his stock of hardware and farming implements to a new store room on Carolina avenue.

Heating and Ventilating

MAY & FIEBERGER FURNACE GRATE.

Many furnace makers claim for their furnaces so complete combustion provisions as to insure against the possibility of the well known but much abhorred clinker. But just the same the old large, familiar clinker is still doing business in the bowels of the big

Cut 1.

furnace firepots, and the problem of getting it out without tearing the fire to pieces and possibly destroying it altogether in most instances remains. A very good furnace and grate arrangement is shown in the accompanying illustrations. It is the form now in use in the Akron Air Blast Furnaces by May & Fieberger of Akron, Ohio. The grate is a flat one, designed in wheel formation, with a good solid center and radiating bars like the spokes of a wheel. It is set in such a manner that its equipment provides for both lateral and circular action, the lateral movement allowing a clear play of about six inches. It is also so arranged that the grate may be tilted downward freely at the front to an unusual distance without dropping the back ashes or the back of the fire body.

Cut 2.

The lateral play provides for this. Thus a clear opportunity is allowed to get at the heart of the lower fire body where clinkers always lie, and they may be hooked out readily, even very large ones, and dropped into the big ash pit without breaking up the fire. It is a very simple arrangement, though a very excellent one, and one that will be appreciated by both furnace dealers and users. Cut 1 shows the grate in flat position ready for firing. Cut 2 shows the grate tilted at the front and closely covering the back extremity of the firepot—the position for cleaning up the fire. It also shows the detached grate and fixtures. The ash shaking provisions are in circular and lateral agitation of the grate. This equipment is used in furnaces made by May & Fieberger, Akron, Ohio. Their catalogue, furnished on application. Kindly mention THE AMERICAN ARTISAN.

BOYNTON'S CELEBRATED FURNACES.

In the extensive line of high-class furnaces manufactured by the Boynton Furnace Company, of 207-209 Water street, New York, and 147-149 Lake street, Chicago, is included a number of specialties which are very attractive in appearance and of the highest grade in construction and quality. Foremost among these goods stands their improved Gas-Tight self-clearing furnace, which has made, they state, many records of over twenty-five winters of continuous service.

This furnace is built entirely of cast iron, the parts most susceptible to the effects of the fire, namely, the fire-dome and radiator, are soldid core castings, and no part coming in contact with the gases of combustion, is either bolted or riveted. This furnace, it is claimed, is thoroughly gas-tight during its lifetime and has the greatest possible amount of radiating surface in proportion to grate area. There are no horizontal surfaces in its radiator flues for the lodgment of soot and ashes and it is practically "self-clearing." The firepot is corrugated, the ash-pit is commodious and the radiator adjustable to any position of the smoke pipe, a matter of much importance to the dealer who sets it up. The dust flue removes all dust incident to shaking. The doors are mounted with brass hinge pins which do not bind nor rust off.

Another furnace manufactured by this company is their improved Gas-Tight portable furnace, an exceedingly well made and finely finished furnace, suited to the use of hard coal, or natural gas. A feature of this furnace is its cast iron return flue radiator. It is fitted with triangular revolving grates and is made in five sizes. This furnace possesses all the sterling qualities of their self-clearing furnace and will be found thoroughly satisfactory in every particular.

Another make of furnace in this list is their "Renown" furnace, which is of a distinct type of construction, upon principles which have answered every demand made upon dealers for a thoroughly first-class article. The high degree of mechanical excellence for which Boynton furnaces have been distinguished for a half century has secured to patrons the fullest of satisfaction arising from ease of operation, durability and immunity from coal gas leakage.

The Boynton new steel dome portable furnace, for hard coal or wood, is an excellent example of the down draft type of wrought metal furnaces. It has the advantage of an unusually large combustion chamber, which presents to the air in circulation a great area of direct heating surface. The flue system of this furnace is so arranged that the hot gases of combustion must pass in a direct line to the smoke outlet. In the matters of spacious ash-pits, and door-mountings, absence of complication, beauty of design, etc., this, like all the furnaces manufactured by this company, are fully up to the highest mark of merit. In an attractive and well gotten-up catalogue issued by the Boynton company, are given full instructions and prices relating to everything in their line. This catalogue will be

gladly mailed to any applicant, who, when writing, is requested to kindly mention THE AMERICAN ARTISAN.

WALTER S. RAIT & CO.

The hot air furnace shown in the accompanying illustration is an example from the wholly new line of clearly up-to-date modern productions offered by Walter S. Rait & Co. of Chicago. In its construction whatever is positively known to be correct and good in the way of capacity, conveniences, heating quality, radiating superiority, grate arrangement and operating devices is embodied. In its outline evidence is given of superior combustion provisions and extreme radiating capacity, while by the same evidence its simplicity of operation is assured. It may be had with the large two-section feed door, as shown in the illustration, or with a smaller one of the size of the lower section of the door here represented. It may also be had with

Walter S. Rait & Co.

a heavy sheet steel double return flue radiator, in place of the solid cast, one piece, double return flue radiator, as here represented, modifications being provided to meet differing views as to desirability in these parts. It is a clean, durable, serviceable and exceedingly simple furnace in all ways. It is absolutely gas tight and smoke and dust proof under all conditions. Printed matter and prices may be had by addressing the makers, Walter S. Rait & Co., 211 and 213 Lake street, Chicago, Illinois. Kindly mention THE AMERICAN ARTISAN.

FERROSTEEL REGISTERS.

"Persistent superiority" apparently is the watchword as relates to the registers, faces, borders and other commodities of the productions of the Ferrosteel Company of Cleveland, Ohio. The company has a peculiar pride in not only the superiority of the material from which its goods are made, but also in the mechanism, finish, and general attractiveness of its wares. Within the range of its offerings, practically ever conceivable modern style, shape and design is included.

For a number of years goods under the Ferrosteel brand have been coming out to the trade and apparently the more fully known the goods become the more general is the demand for them. Coming into the business of manufacturing these goods at a time when the artistic development of registers and accessory equipment was at its best and continuing through the succeeding period in which a noticed betterment has occurred with all producers in this line, the Ferrosteel Company has fitted into a period that has given it from the first a clear, clean, excellent line, and it has by such improvements in designs and process of manufacture as have been suggested up to the present time been able to keep thoroughly up to and to an extent in advance of ordinary requirements. As indicated herein the element of quality counts for much in the production of all Ferrosteel wares put upon the market, and as the range of styles and shapes is thoroughly complete it is presumed there is offered just what the trade requires in modern up-to-date productions. Literature and prices may be had upon application. Address the Ferrosteel Company, Cleveland, Ohio.

"HEATING PLANTS COST LESS."

In these times of increased costs and prices it will be found a source of gratification to have someone who knows his subject come to the front with testimony that reveals opportunities to buy at figures that not only are not raised but which promise a slight decrease in prices. The writer, Mr. Bruch, of the following letter is connected with The American Radiator Co. and his experience as relates to the subject of his letter is such as to fully equip him with ample information upon the subject referred to.

To the Editor:

"Pardon me for striking a discordant note in the general hue and cry in regard to the advance in all branches of the building trades, claimed by some as due to market manipulations, but which is actually due, at least in greatest part, to demand caused by excessive building throughout the United States. I do not believe in representing things to be worse than they are or unnecessarily frightening investors. There is at least one branch of the building trades wherein prices are less than they were a year ago. I refer to steam and hot water heating. As compared to the entire cost of building the heating is about 10 per cent of the total investment, but at this time of year many owners would install heating plants in old buildings if they did not think prices were so high. It is true that pig iron has now reached $20.50 per ton, which is the highest price it has touched since 1902-1903, viz., $25 a ton. It is almost impossible to obtain deliveries of iron for the last quarter of 1906 and many of the furnaces have sold out their capacity for the first quarter of 1907. Despite this condition of the raw material market as reflected in the daily market reports, great forbearance is being shown by the manufacturers of finished articles in all departments of the steam and hot water heating industry. Actual figures in our line compared to those of 1902-1903 show the following results:

Radiators, reduction of	12½	per cent
Pipe, reduction of	30	" "
Cast iron fittings, reduction of	14	" "
Boilers, cast iron, reduction of	11	" "
Labor, increase of	12	" "

"Compared with the low prices of one year ago there will be found a reduction of from 2½ per cent to 7½ per cent on

each of these items, except in the item of labor, which has increased 5 per cent. As the item of labor is only 15 per cent of the total cost of a heating outfit for an ordinary cottage, house or two or three flat building, this increase in labor is more than offset by the present low price of material, with the result that a complete heating outfit can be put in at this date lower than one year ago. When the manufacturers of finished articles exhaust their present supply of pig iron contracted for earlier in the year a general rise may be expected. The indications are that next summer the cost of work in our lines will be as great or greater than it was a year ago and may equal the high prices of 1902-1903 should the pig iron and coke markets remain firm. LOUIS BRUCH."

PARAGRAPHS.

High merit based upon proper construction are the points put forward by The Wise Furnace Company, of Akron, Ohio, in favor of the Wise furnace of their manufacture. This furnace has been on the market for quite a period of time, and during its life there has been no spot and no time in which its superior advantages were not recognized by furnace users and by the trade. A catalogue tells all about it. The catalogue may be had by addressing the company as above indicated.

The Safety Furnace Pipe manufactured by the Michigan Safety Furnace Pipe Company has been upon the market and in demand among furnace people for a time and to an extent that have left the stamps of both merit and approval upon it. It has stood all the tests of general use and the criticism of underwriter's investigation, and during all of this period and during all of these trials there has been no reason to alter the goods in any material manner. The 1906 catalogue is valuable and may be had upon application by addressing the company above indicated at Brooklyn and Abbott streets, Detroit, Michigan.

Acme gas stoves are good gas stoves, if, as is claimed by their makers, they give 50 per cent more heat with 30 per cent less gas than any other gas stove made. This statement is publicly offered by the makers of the "Acme," and in view of their reputability, we have not the slightest reason to question the figures. They are interesting figures, however, and will be found so by the trade who go further into inquiry and ask for a No. 44 catalogue from which the truth may be learned. Address H. Adler & Company, Carnegie, Pennsylvania, or at the company's office and warehouse, 1225 West 10th street, Kansas City, Missouri.

The Hammond "Dust Proof" Furnace with winged firepot is recommended as the kind of a furnace that lasts. The particular construction of this furnace provides a wonderfully increased extent of radiating surface as compared with other goods of the same nature. In its construction extreme care is used in its fitting, equipping and mounting in general. The Hammond is one of the old reliable furnaces, and its healthful and economical features are such as are most desirable in all situations. The furnace is built on modern principles and is right up to the hour in its convenience. It is easy to set and so simple in its operation that its capacity may be worked up to the full limit or reduced to the minimum without the usually vast amount of training and experience that is required in the operation of many heating devices. For other information, catalogues, etc., address The Peck-Hammond Company, 124 East Pearl street, Cincinnati, Ohio.

When one sees a section of the wooden ventilator as it comes in its perfected form from East Palestine, Ohio, he discovers at once that it is an entirely new creation in the field of register ventilation and also realizes at once that situations where it may be applied advantageously and economically are very great in number. Furnace contractors find a most excellent use for this article in their work, and when brought to know more about it it will probably figure for a place in all new furnace jobs. It is made from any chosen hard wood and will fit flush with all openings, and has an advantage of being offered at the low price of 65 cents per square foot. For additional information address the Wooden Ventilator Company, East Palestine, Ohio.

A special circular descriptive and explanatory of the Mueller Wrought Steel Wall Register has been issued and is now in the process of distribution. Mueller registers have proved a gratifying success and the introduction of the wrought steel wall register is merely a part in the perfection and extension of the Mueller register line. Among the features of the steel register to which attention is called are the great saving in freight due to the lightness of the goods and the assurance that no breakage will occur. In addition to their line of side wall registers, a complete line of floor registers may be had. Catalogues, circulars, and other information will be furnished by the L. J. Mueller Furnace Company, 191 Reed street, Milwaukee, Wisconsin.

The Monarch Air Blast Hot Air Furnace is offered during the present season with an emphasis on the superior advantages of the air blast construction that now comes into it. This is a sectional upper firepot so constructed that in its use oxygen is fed into the combustion chamber combination and upon the fuel by which means the combustion is vastly aided and a perfection thereof is certainly very closely approximated, with resulting advantages that will be apparent to users in the point of cleanliness and economy of fuel. In the case of the Monarch Air Blast there is shown the application of a most excellent feature to a most excellent furnace. Catalogues, pictures, etc., are to be had on application. Address Forest City Foundry & Mfg. Company, Cleveland, Ohio.

The Gilt Edge Radium Hot Air Furnace was studied out by its makers with a view to practicability, comfort and simplicity of detail to the end that it might fit the requirements of dealers and furnace users generally. In the points of efficiency in all conditions and also in the point of capacity and controllability, the furnace in question has in exact and recorded operations furnished results such as in every point of desirability leave nothing to be questioned. In its general lines and in the perfect method of its construction the "Gilt Edge Radium" is about as nearly correct as any superior grade of furnaces can be expected to be. Catalogue and some convenient literature may be had upon application. Address R. J. Schwab & Sons Company, Milwaukee, Wisconsin.

Tinshop

HORIZONTAL MOLDING INTERSECTING WITH AN INCLINED MOLDING, EACH HAVING A DIFFERENT SECTION.

BY LOUIS OEHRING.

In Fig. 1 is shown a horizontal molding, intersecting with another molding, each having a different section; that is, they are each of a different shape. They are also intersecting at other than right angles to one another.

In Fig. 2 we have the projection drawing necessary to develop the pattern. To construct this drawing, first draw the line A B at an angle equal to the inclination of the rake molding, then draw line M N at right angles to it. On line M N draw the section of the inclined molding (a) in the position shown here. From this section draw the lines that represent the bends in the molding parallel to A B, thereby drawing an elevation of the molding as at A B C H.

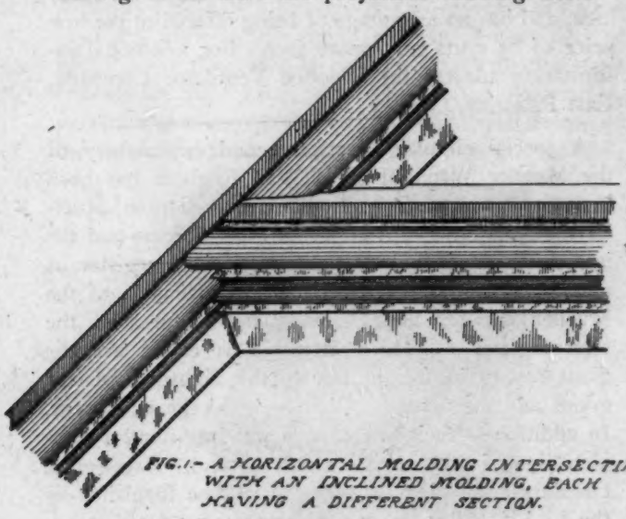


FIG. 1.- A HORIZONTAL MOLDING INTERSECTING WITH AN INCLINED MOLDING, EACH HAVING A DIFFERENT SECTION.

At (c) draw a section of the horizontal mold in the position here shown. Draw the line G P at the proper angle with C H. Draw the line P O at right angles to G P. On the line P O draw another section of the horizontal molding as shown at (b), the bottom of the section to coincide with the line G P.

Divide the curved portions of section (c) and (b) into spaces as shown by the numerals 1 to 22. From the points on section (c) draw lines parallel to line M N until they intersect section (a). From section (b) draw lines parallel to G P of an indefinite length towards A B. From the points produced by the intersecting of the lines drawn from section (c) with the molded side of section (a), draw lines parallel to A B until these lines cross those drawn from section (b) and the points produced by the crossing of the lines representing the line drawn from the same point of each section (b) and (c). Through these points draw the irregular outline shown drawn from point G to 22, the numerals on this irregular outline being the same as those of the sections (c) and (b).

We must next find the intersection of the top of the section (b) with the inclined molding A B C H. Reproduce section (a) at (d), and on line O P at (e). Now, divide each section into spaces shown by the numerals 22 to 35. From section (e), draw lines parallel to O P towards section (b), until they touch the top of section (b). From the intersection of these lines with this top, draw lines parallel to G P towards A B indefinitely. From section (d), draw lines parallel to A B, until they intersect the lines drawn from the top of section (b), and the points of intersection formed by the lines drawn from the same numeral of section (d) and (e) are points through which draw the irregular line from 22 to D. The irregular line from D to G, following the numerals, is the line of intersection, or the miter line of the two moldings. This completes the projection drawing, from which we can now develop the pattern.

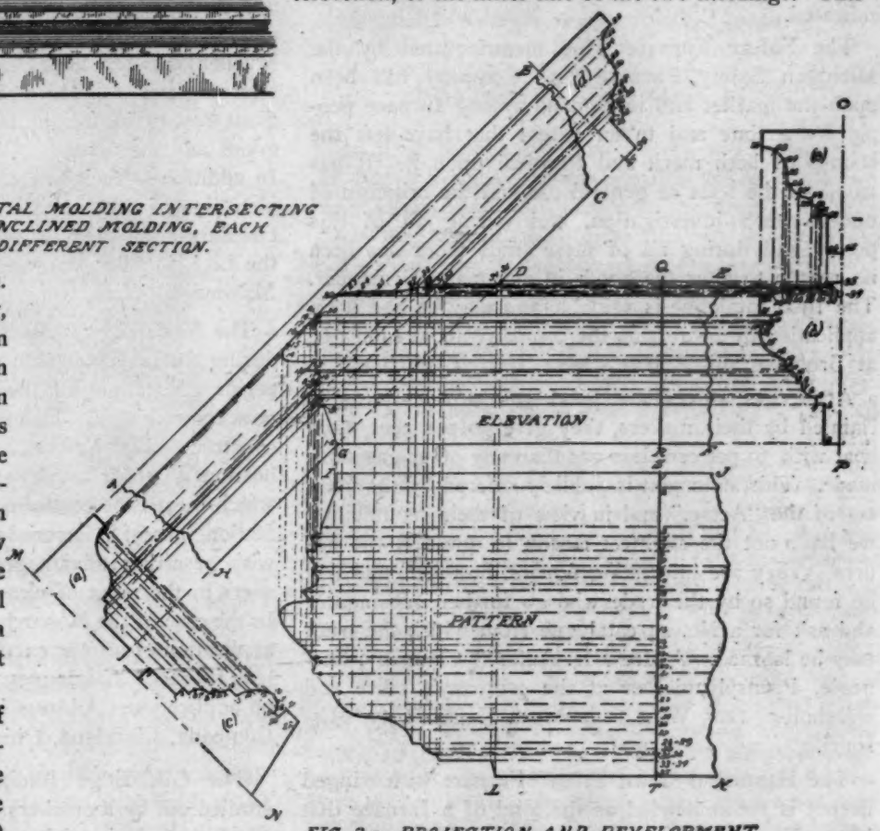


FIG. 2.- PROJECTION AND DEVELOPMENT FOR MOLDING SHOWN IN FIG. 1.

Draw the line S T at right angles to G P. On this line set off the stretchout of the section (b). Through these points draw lines parallel to G P as shown. From the line of intersection G 22 D, draw lines parallel to S T, the line drawn from the line of intersection to cross that drawn from the stretchout line both having the same numeral, and the points produced by this crossing are the points through which draw the irregular line I L, thereby completing pattern.

A HARD NUT TO CRACK.

To The American Artisan:

My attention having been called to an article appearing in your issue of September 1st, under the heading of "A Hard Nut to Crack," by Mr. Wm. Quaritius, in which he states that the supposition is that when galvanized iron is used as a roofing and properly applied, that it will last a lifetime, especially the place that should be a strong point, namely the seam, in this particular I am of the opinion that Mr. Quaritius is greatly mistaken.

And will venture to state that galvanized iron should only be used in case of where perfectly plain roofing is required, where no soldering of the seams is necessary and should never be used as a roofing where valleys and gutters are required in connection with it, which would require the soldering of the seams.

Although in this particular case it would be a very hard proposition to state what was the exact cause of this roof decaying, as the writer does not state whether the rusting occurred on the under or top side, if upon the under side the only way that I can account for it is that the roofer was careless and spilled his acid on the sheeting, causing it to become thoroughly saturated with it, or else the seam was not perfect, causing the acid to run through on the sheeting at the time the soldering was done. This would cause an action that would completely eat out your present roofing, also two or three of your future patches that you could put on.

If the action was on the top side the conditions would prevail as I have explained below. As any acid left upon the top side would soon become thoroughly weakened by the elements before it would have time to have any action on the coating, the fumes of the acid remaining in the seam after soldering would remain dormant, until the seam became broken, and admitting a free circulation of air, for the reason that the action of the acid upon the coating of the galvanized iron generates a gas that must escape, or it will retard the action of the acid upon the coating.

In explanation of the statement that I made above that we refer you to your own experience in working galvanized iron. In double seaming the bottoms on buckets, cans or any articles requiring same, you have often noticed that it would scale off at the edges and you have often used some tool to scrape the peeling off with. This is nothing more or less than the coating breaking loose from the base of the material, caused by the hammering or bending to complete the double seam.

This condition exists more or less where joints or seams are made in applying galvanized roofing. Although it may not be so prominent or easily discovered by the eye, for the reason that it has not required the strain or excessive malleting in making the seam in roofing that it requires in double seaming the bottom on a bucket, where it will not have caused the coating to free itself from the base entirely, yet you have weakened the connection between the base and the coating to a considerable extent.

And when you solder the seams of your galvanized roofing, you only plate or tin the two coatings together, as it requires an excessive amount of heat to bring the spelter, of which the coating is composed, to a melting point before the solder can be made to fuse with it, or penetrate so as to solder the coating that has broken itself from the base of the material.

After you have made the seams and soaked them well with solder, you still leave it in a weakened condition, as it only requires time for the expansion and contraction to cause the coating to break loose and leave the base of the material exposed on either side of your solder to the elements or the fumes of the acid that is left in the seam.

In making galvanized iron it requires a slow and very high degree of heat to bring the spelter that is used in the coating to the proper melting point, as a quick and excessive heat will destroy and burn the metal. Therefore it would be an absolute impossibility to try to make the thin coating on galvanized iron adhere to where you have caused it to free itself from the base of the material in making the seam without burning or destroying it.

You have probably noticed that in soldering the seams of galvanized iron with too hot an iron your solder becomes lumpy or full of grains, and when these appear you are burning or destroying the coating on the iron.

Thinking that the question might be asked that where the joints and seams are not soldered it would cause them to leak, I will venture to say, not necessarily so, as I have seen thousands of squares of tin and iron roofing that never had a drop of solder on them, only on the cross seams in the gutter and at the tube. Of course this all depended upon good workmanship and perfect drainage of the roofing.

If you wish to test the strength of the solder and the weakness of the galvanized iron at the joint, secure two strips of galvanized iron and solder them together. After the joints become cool, hammer them slightly until broken apart, and you will find upon close examination that you have not broken the solder, but have caused the coating to break loose on one or the other of the pieces from the base of same.

Yours respectfully,

Parkersburg, W. Va. W. W. Bosbury.

MASTER SHEET METAL WORKERS.

UTICA, NEW YORK, SHEET METAL WORKERS.

A temporary organization of sheet metal workers of Utica, New York, was effected in a meeting held on September 27, with Julian Batchelor chairman and Henry Brunett secretary. A local of the N. A. M. S. M. W. is contemplated.

EVANSVILLE, INDIANA, SHEET METAL WORKERS.

The recently organized Master Sheet Metal Workers' Association at Evansville, Indiana, will unite with the national association. Officers are: President, J. J. Groniger; vice-president, August Schmitt; treasurer, Hans Lohse; secretary, J. D. Ortmayer.

DAYTON, OHIO, SHEET METAL WORKERS.

A permanent organization at Dayton, Ohio, sheet metal workers was perfected on October 2. Following are the officers chosen: President, Chas. A. Win-

tersteen; vice-president, John R. Kenney; secretary, Frank J. Hoersting; treasurer, Adam Bretch.

MILWAUKEE SHEET METAL WORKERS.

An open meeting of the Milwaukee Local of The National Association of Master Sheet Metal Workers was held on the evening of Oct. 4 at the rooms of the Builders and Traders' Exchange. A very excellent meeting was had. A number of subjects of vital interest to the craft were discussed and a goodly routine of detail disposed of.

Following the meeting an adjournment was taken to the large hall where a sumptuous luncheon was partaken of with as an included item much of the beverage "that made Milwaukee famous." Messrs. Jeske, Hollitz, Geo. P. Schmitt and "Papa" Patterson entertained with recitations and humorous songs and a good time was had until the small hours following midnight. President Bogenberger presided.

NILES CORRUGATING CO.

The Niles Corrugating Company, of Niles, Ohio, claim a distinct advantage in the line of high-grade roofings, sidings and other articles of its ware, in having its own sheet mills and galvanizing plant. In such a situation there are to be found many distinct advantages in the way of care in manufacturing and plating and in the advantage of watching all of the processes that go to produce goods of this class. Among other things the company promises is the matter of instant shipment of all orders. This in itself is a very important item and one which in these times is worthy of serious consideration. Their catalogue "D" gives information as to their wares and all the distinct features that are applicable to their business. Address The Niles Corrugating Company, Niles, Michigan. When writing, kindly mention THE AMERICAN ARTISAN.

NOTES AND QUERIES.

STOVE PIPE COLLAR.

From R. M. Virtue, Galesburg, Ill.

Please give me the address of large manufacturers of stove pipe collars.

Ans.—Stuber & Kuck, Peoria, Ill.; Wheeling Corrugating Co., Wheeling, W. Va.; Berger Bros., Philadelphia, Pa.; J. K. Schick, Fairbury, Ill.; Republic Metalware Co., Buffalo, N. Y.

GRASS BURNING TORCH.

From F. A. Powell, Henry, Ill.

Please let me know where I can buy a grass burning torch for burning grass and weeds out of gravel drives or walks.

Will some reader kindly answer this query?

BRASS PULLEYS

From Columbian Hardware Co., Cleveland, O.

Kindly give us the address of manufacturer of small brass pulleys for ventilators.

Ans.—Stanley Works, New Britain, Conn.

BULLDOG HOSE.

From Grant Strickler, Laura, Ill.

Where can I buy Bulldog Hose?

Ans.—Boston Woven Hose & Rubber Co., 144 W. Lake street, Chicago.

PRINCE ROYAL FURNACE.

From Clark Brothers, Lakefield, Minn.

Please advise me who makes the Prince Royal line of furnaces.

Ans.—Hart & Crouse Co., Utica, N. Y.

SCHOOL FURNACE.

From Gongoll Bros., Mayer, Minn.

Please tell us who manufactures the kind of heater for schools advertised in THE AMERICAN ARTISAN a while ago.

Ans,—Grossius Furnace Co., 409 E. Eighth street, Cincinnati, Ohio.

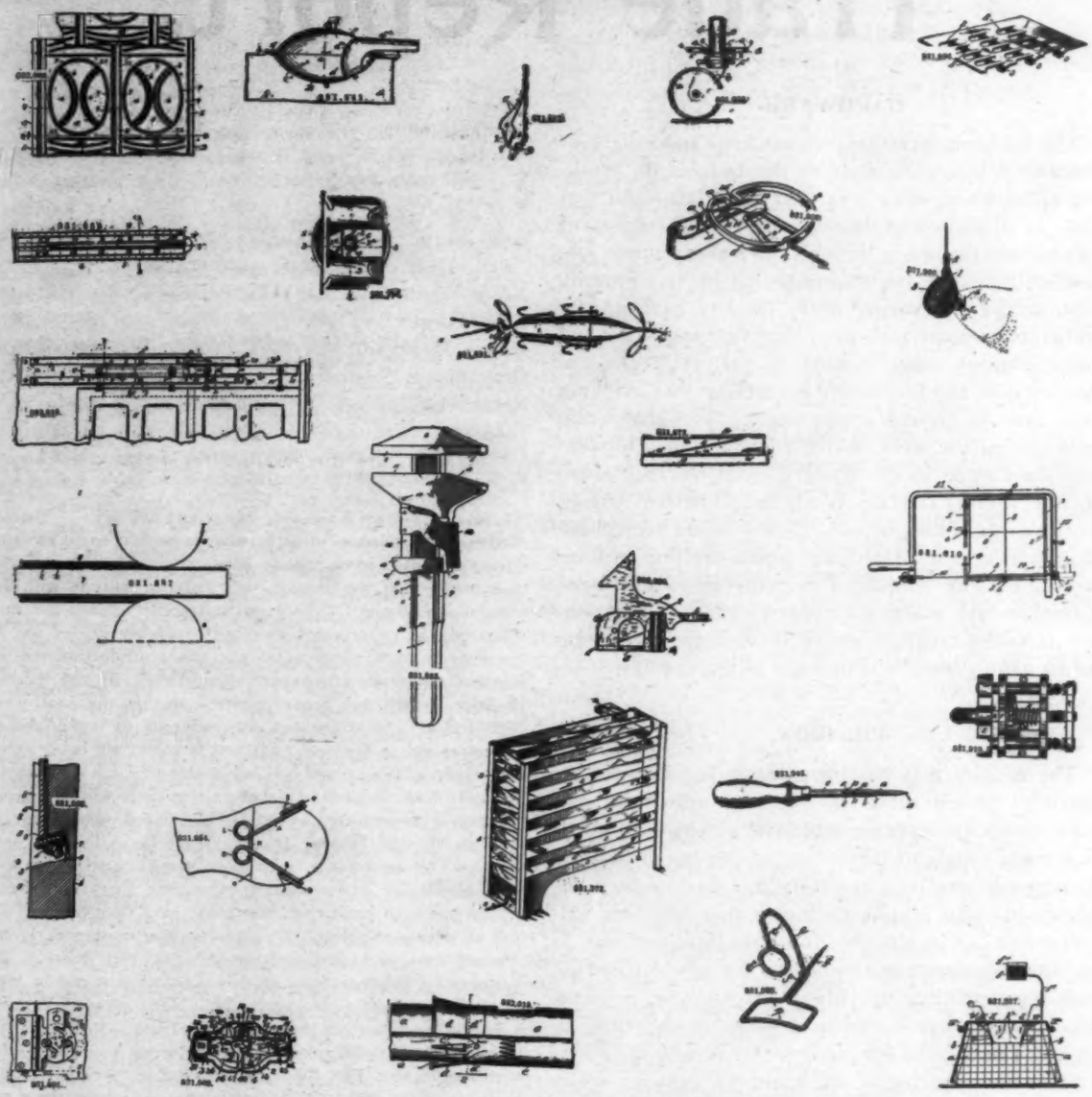
ITEMS.

Follansbee Brothers, of Pittsburgh, Pa., are at present giving prominence to the "Security" brand of roofing tin. This is a special brand that is made in the company's own mills by Welsh tin plate workers and by the same process throughout as characterizes the manufacture of the genuine "Lilly" and "Worcester" brands. This special product, along with the range of high-grade standard brands of tin and roofing plate that are offered by the company, completes an assortment that will be difficult to equal for merit and general desirability anywhere. In addition to the Pittsburgh establishment the company has branch concerns in Buffalo, New York; Louisville, Kentucky, and elsewhere.

The McClure Company, of Pittsburgh, Pa., get right at the meat of the subject as it relates to their method of advertising business, in this expression: "Better tin at your regular price—lower price on your regular grade." The equipment of the McClure Company in the way of supplying exceptionally good grades of plate and their ability to furnish moderate valued and other grades, upon request, has made their establishment a popular one among tin plate buyers. The fact that an excellent variety of the very best and most popular grades of both bright tin and roofing plate is always to be found in their stock, brings them a clientage which they manage to hold steadily through all varying conditions of the market. Such additional information as may be desired relating to tins or ternes may be had by addressing the company at their Pittsburgh or Philadelphia offices.

The Globe Ventilator Company is known throughout the country as the standard of its class, and wherever specifications are made to include it no question arises about its acceptability. It has been on the market for a good many years, and during these years it has always been a perfect worker, and as a result of its peculiar construction and the effectiveness thereof it has made friends and added to patronage wherever it has been used. Theoretically, the Globe Ventilator is right, and practically it is as thoroughly right as it is theoretically. It is made either in copper or in galvanized iron, and when so required it is made with a heavy glass crown for skylight ventilation purposes. Public buildings, schools, churches, halls, mills, factories, and audience rooms, in all parts of the country, it will be observed, are using the Globe Ventilator with eminent satisfaction. Such other information as may be desired may be had by addressing the Globe Ventilator Company, Troy, New York.

NEW PATENTS.



831,796—Sash cord guide. Elmer B. Miller and Peter C. Sayger, Grand Rapids, Mich., assignors to Grand Rapids Hardware Company, Grand Rapids, Mich. Filed Jan. 9, 1906. Serial No. 295,294.

831,801—Detachable hinge. Wilson T. Roberts, Greenville, Ohio Filed Sept. 16, 1905. Serial No. 278,814.

831,831—Artificial bait. Harry C. Clippinger, Akron, Ohio, assignor to Mark E. Metzger and Daniel W. Brown, Akron, Ohio. Filed Feb. 4, 1905. Renewed July 9, 1906. Serial No. 325,315.

831,838—Caster. Albert B. Diss, Newark, N. J., assignor to Universal Caster and Foundry Company, Newark, N. J., a corporation of New Jersey. Filed Sept. 23, 1905. Serial No. 279,758.

831,841—Spout for cans. Richard Dreyer, Sea Cliff, N. Y. Filed Feb. 3, 1906. Serial No. 299,291.

831,859—Rule. Hiram D. Hagerman, Houlton, Me. Filed May 17, 1906. Serial No. 317,303.

831,863—Lock. Julius Hammersfahr, Vailsburgh, N. J. Filed Aug. 5, 1904. Serial No. 219,595.

831,872—Weather strip. Thomas J. Johnson, Norman, Okla. Filed Feb. 26, 1906. Serial No. 302,992.

831,887—Manufacture of compound tubes. John H. Nicholson, Pittsburg, Pa., assignor to National Tube Company, Pittsburg, Pa., a corporation of New Jersey. Filed May 18, 1905. Serial No. 261,093.

831,919—Vise. Hugh H. Abernathy, Chicago, Ill. Filed Feb. 11, 1903. Serial No. 142,961.

831,925—Sash cord fastener. Eusebe Belanger, Waterbury, Conn. Filed Jan. 25, 1906. Serial No. 297,839.

831,929—Trap. Christian Christianson, Bowbells, N. D. Filed March 31, 1906. Serial No. 309,185.

831,936—Screen plate. Alexander W. Crawford, Girard, Ill. Filed Aug. 10, 1905. Serial No. 273,503.

831,945—Combined belt awl and punch. Peter I. Gonyea, Watertown, N. Y. Filed June 13, 1906. Serial No. 321,512.

831,552—Fish hook. Oscar Hallstrom, Chicago, Ill. Filed April 5, 1905. Serial No. 253,947.

831,954—Ice creeper. William R. Jenkins, Bellefonte, Pa. Filed July 28, 1905. Serial No. 271,642.

831,555—Wrench. Frederick J. Holton and David Holmgren, Brigham, Utah. Filed Dec. 8, 1905. Serial No. 290,905.

831,557—Mouse trap. William Kumpf, New York, N. Y. Filed July 3, 1906. Serial No. 324,565.

831,573—Sectional compound heating stove. William A. Standing, Sharpsburg, Pa. Filed Aug. 18, 1905. Serial No. 274,669.

831,610—Butter cutter. Arthur C. Hummer, Seattle, Wash. Filed June 4, 1906. Serial No. 320,218.

831,980—Fish hook. John S. Parke, St. Louis, Mo. Filed Dec. 14, 1905. Serial No. 291,666.

831,985—Hat hanger. Charles F. Pettingell, Amesbury, Mass., assignor of one-half to Wilbur H. Taylor, Amesbury, Mass. Filed May 23, 1905. Serial No. 261,831.

832,003—Metallic roofing plate. Pleasant S. Torrence, Mooresville, N. C. Filed April 15, 1905. Serial No. 255,784.

832,010—Door carrying and operating device. Myron Cossey, New York, N. Y. Filed April 22, 1905. Serial No. 256,847.

832,019—Stovepipe ventilator. Frederick Kallsen, Chicago, Ill., assignor of one-half to Julius C. Kallsen, Chicago, Ill. Filed Feb. 10, 1906. Serial No. 300,492.

832,020—Door catch. Henry F. Keil, Bronxville, N. Y. Continuation of application Serial No. 217,195, filed July 19, 1904. This application filed May 15, 1905. Serial No. 260,556.

Trade Report.

HARDWARE.

The hardware situation presents some annoying conditions. All lines are in strong demand, but the breaking up of assortments is causing much complaint that runs in a chain that involves the whole courses of goods from the origin through the manufacturer, jobber and retailer up to the consuming buyer. Scarcity of iron and exceedingly heavy demand have greatly embarrassed many makers of hardware specialties and have in many cases cleaned up factory stocks and necessitated hand-to-mouth operations that will not take care of present requirements. The sharp cold spell during the week, which amounted to a blizzard and deep snow in all Eastern sections and sharp weather throughout the West, has stimulated buying in stoves and filling-in and delayed orders are voluminous and urgent. Hardware prices are firm in tone, with advancing tendencies in many lines, and many specialties are practically unprocurable. Collections are reported excellent and cash discounts are being taken more generally than usual at this season.

PIG IRON.

The activity that has prevailed in pig iron for an extended period shows no signs of abatement, and each week's consumption in the face of a serious dearth in current supply of pig is putting melters of average tonnages to the test, in caring for their factory engagements with iron vastly higher than had been calculated on. The scramble for 1906 iron continues to increase. Premiums for immediate delivery iron and the consequent splitting up of large yard supplies at greatly advanced prices is rapidly cleaning up everything in sight. The demand for pig iron is evidently far greater than the capacity of the country's furnaces under normal labor conditions and quite serious labor troubles in some districts together with a general shortage of furnace labor is trimming the aggregate furnace capacity of the country quite below the calculated output. Present Chicago quotations show advances during the week of from 50c to $1 per ton for pig throughout the list.

CHICAGO QUOTATIONS.

Lake Superior charcoal	$20.00@21.00
Northern Foundry No. 1	21.00@21.50
Northern Foundry No. 2	20.50@21.00
Northern Foundry No. 3	20.00@20.50
Northern Scotch Foundry	21.00@21.50
Ohio Strong Softeners No. 1	22.25@22.75
Ohio Strong Softeners No. 2	21.75@22.25
Southern Foundry No. 1	20.40@20.90
Southern Foundry No. 2	19.90@20.40
Southern Foundry No. 3	19.40@19.90
Southern Foundry No. 4	18.90@19.40
Southern No. 1 Soft	20.40@20.90
Southern No. 2 Soft	19.90@20.40
Southern Gray Forge	17.65@18.15

BIRMINGHAM QUOTATIONS.

No. 1 Foundry	$16.50@17.00
No. 1 Soft	16.50@17.00
No. 2 Foundry	15.50@16.00
No. 2 Soft	15.50@16.00
Gray Forge	13.00@13.50

PITTSBURG QUOTATIONS.

No. 2 Northern	$19.35@19.60
Gray Forge	18.35@18.60
No. 2 Southern	20.10@20.60
Gray Forge, Southern	17.85@18.10
Bessemer	19.85@20.35
Basic	19.60@19.85

Quotations are for first quarter 1907.

Rogers, Brown & Co.'s weekly report will say: "A steady market with evidences of increasing strength is to be recorded during the past week. Each day adds to the accumulation of evidence that the present high plane of activity will continue well into 1907. The growing scarcity of iron for early shipment, the pronounced shortage of higher grades for delivery prior to April of next year and a production still far below the normal, are conditions which justify the increase in prices which has been registered during the past week. Manufacturers in large lines are beginning to run behind on deliveries and at the pace mills and factories are being driven there seems little prospect of being able to catch up with the demands made on them. It appears that there will be a larger tonnage of uncompleted contracts for finished material carried past the first of January than has ever been the case heretofore. This means that much more business activity for 1907, and should give an excellent impetus into that year. Trade locally has been brisk and sales made have been of good size and at advanced prices. Business for the most part is now running into 1907, first quarter and first half delivery, and business for shipment prior to that time, when it can be taken care of, is only at a sharp advance. With furnaces contending with the difficulties they now meet from lack of labor and insufficient transportation of raw material, it is only infrequently the case that they find it possible to take on additional business for early delivery over and above their estimate on this year's make, which was figured up when present activity began six weeks or two months ago. Advances have been registered in both Southern and Ohio irons and there is no immediate indication that these advances in prices have reached a limit. In the East and West a large tonnage of foundry iron has been placed during the week and there is more activity in general foundry grades than there has been in the steel making irons, as these occupied the place of interest a week ago.

Reports from England indicate that they are watching the American market conditions closely, and will keep in touch with American advances. The British iron available will undoubtedly be used here and it is only a question as to what price will be paid for it. As has been the practice in the past, the British manufacturer knows he is indispensable at times and uses this knowledge for all it is worth. There is this to be said about the English market, which has been demonstrated in the past—it is of a very sanguine temperament under conditions such as are now ruling and more than once has advanced faster than conditions warrant, by so doing putting a temporary stop to American buying.

Most satisfying is the report of business failures during the nine months of 1906. They indicate an unprecedented sound condition of business at a time when business expansion is proceeding at a rate never before equaled. As this is true of both the number of new firms in business and amount of capital involved, it is expected that some increase would

be found in the number of unsuccessful ventures, but the figures do not show any such proportion of increase in either the amount of failures or the amount of indebtedness. This is more surprising and satisfying than at first appears, when it is remembered that the country has experienced two phenomenal disasters during these nine months and rates for money have ruled invariably at a high rate.

Coke continues firm with increasing demand for nearby delivery and several good furnace contracts now under consideration. The leading interests in each district are out of the market for anything like sales for prompt shipment.

Matthew Addy & Co.'s weekly report will say: For at least six months ahead most of the iron that the country can make is now under contract. In addition a great deal of iron has been sold for the second quarter of 1907.

As for this year, practically nothing is left except some odds and ends now and then that do not fit on regular orders. The amount of spot iron available for the balance of the year apparently is very small as compared with the quantity that is needed. And with this state of affairs it is easy to see why spot iron is commanding a heavy premium over iron for next year. This premium varies from a dollar to two dollars a ton, depending largely on the quality of iron offered, the high grade soft irons being most badly needed. But all kinds of iron are in demand, and the market is as broad as it can possibly be. This week there has been excellent buying, the principal tonnage being for 1907 delivery. The small lots offered for immediate shipment have been snapped up as soon as they were quoted. And in this connection it seems evident that a great many concerns are going to be seriously inconvenienced before the end of the year, because of their inability to get the irons they need to fill out their mixtures. The iron purchased for next year has been of all kinds, and we note sales in this market of 2,000 tons of basic, 1,000 tons northern 3 foundry, 2,500 tons malleable, and so on down to a large number of smaller orders.

Northern No. 2 is being held at $19.00 and Southern No. 2 at $16.00 f. o. b. Birmingham for next year. For this year prices are too irregular to quote.

There has been a spurt in coke, which is in lively demand. Good sales have been made, and prices are on the up grade. Good spot coke is as hard to get as good pig iron.

In the south furnace outputs have been much reduced by reason of excessive rain. There was rain in Birmingham in September every day of the month except five, and October has not been much better. Open air work has been almost at a standstill. Everywhere the railroads are having trouble in handling iron and coke promptly. For example, the Pennsylvania yesterday notified the steel plants in the Pittsburg district that they could receive no freight for thirty-six hours. This to enable them to clear congested tracks. There is no doubt but that fears of more railroad troubles later on are well grounded.

Altogether the situation in pig iron has since the first of the month grown decidedly stronger. There is more and more talk of present prices ruling through all of next year. It is, of course, evident that there can be no easing off for months to come, as the large sales ahead make the future certain.

TIN PLATE.

The domestic demand for tinplate is more active, and the mills are unable to meet all requirements. The leading mills are still booking orders on the basis of $3.75 per box of 100 lbs. for coke tins, 14x20 inches.

For prompt shipment f. o. b. mills:

Coke tins, 14x20, I. C.	$3.90
Coke tins, 14x20, 100 lbs.	3.75
Coke tins, 14x20, 95 lbs.	3.70
Coke tins, 14x20, 90 lbs.	3.65
Charcoal terne, 20x28, I. C.	7.35
Charcoal terne, 20x28, 200 lbs.	7.05

Usual differences for odd sizes and weights.

SHEETS.

There is comparatively little change in the sheet market, but conditions are apparently growing worse as relates to deliveries. Specifications continue to pile up at the mills and periods of delivery are growing longer. Premiums for early delivery are becoming a factor.

The following prices are for 500-bundle lots and over, f. o. b. mill:

Gauge.	Black. Net.	Galvanized. Net.	List.
No. 30	$2.75	$4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.55	17
No. 27	2.40	3.55	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

MERCHANT BARS.

The situation at Pittsburg remains unchanged. Recent $1.60 quotations still hold good except with two large mills, who still quote $1.50. Specifications are heavy. Contracts for delivery inside of six or eight weeks are not sought as the mills are filled up with early delivery business. Premium offers for deliveries within three or four weeks find some takers.

Quotations f. o. b. Pittsburg are: Common bars, car lots, $1.60; less than cars, $1.65; steel bars, $1.50; channels, angles and tees under 3-inch, $1.60. Differentials on steel less than 2,000 lbs., 10 cents advance; less than 1,000 lbs., of a size, 30 cents advance.

SHARP ADVANCE IN COPPER.

Further advances have been made in the price of inget copper, quite heavy sales being made at 22c per lb. for lake, the highest price noted since 1880, when the quotation was 25c per lb. Heavy sales are reported to have been made at the new figure, principally to Connecticut brass workers. Attention is called to the fact that the present high prices are due to a tremendous consumptive demand, with an actual scarcity of copper. Some of the leading consumers of the metal have not yet covered their requirements for the first quarter of next year, and yet the price of the metal is steadily advancing. There is not likely to be any lower price until stocks begin to accumulate again, and the prospect is that the producing companies will be unable to meet the foreign and domestic demand for six months to come. The New York Metal Exchange quotes 21@22c for Lake, 20@21c for electrolytic and 20@21c for casting brands.

The Copper Manufacturers' Association has made a further advance of 1c in the price of sheet copper, the base price being now 25c. Yellow metal is also higher, at 20c for sheathing, 22c for dimensions, 21c for nails and 22c for stem and keel metal.

Extreme fluctuations for this year's London market:

	Highest.	Lowest.
Electrolytic copper, spot	21.00	17.62½
Lake copper, spot	22.00	17.75
Casting copper, spot	21.00	17.50
London, spot	£ 96 15 0	£76 17 6
London, futures	96 10 0	74 5 0
London, best selection	101 10 0	83 10 0

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 25
IX	14x20	8 25
IXX	14x20	9 48
IXXX	14x20	10 68
IXXXX	14x20	11 88
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes 270 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 25
North'n Fdy., No. 1	18 80@ 19 05
North'n Fdy., No. 2	18 30@ 18 55
North'n Fdy., No. 3	17 80@ 18 05
Northern Scotch Fdy.	18 80@ 19 05
Ohio Strong Softeners, No. 1	19 80@ 20 05
Ohio Strong Softeners, No. 2	19 30@ 19 55
Southern Fdy., No. 1	18 15@ 18 40
Southern Fdy., No. 2	17 65@ 17 90
Southern Fdy., No. 3	17 15@ 17 40
Southern Fdy., No. 4	16 65@ 16 90
Southern No. 1 Soft	18 15@ 18 40
Southern No. 2 Soft	17 65@ 17 90
Southern Gray Forge	16 15@ 16 40
Southern Mottled	15 90@ 16 15
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10% Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 50
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs	$2 00
Nos. 13-14	per 100 lbs	2 05
Nos. 15-16	per 100 lbs.	2 10
Nos. 17-21	per 100 lbs.	2 15
Nos. 22-24	per 100 lbs.	2 20
Nos. 25-26	per 100 lbs.	2 25
No. 27	per 100 lbs.	2 30
No. 28	per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11	per 100 lbs.	$2 75
Nos. 12-14	per 100 lbs.	2 85
Nos. 15-16	per 100 lbs.	2 95
Nos. 17-21	per 100 lbs.	3 10
Nos. 22-24	per 100 lbs.	3 25
Nos. 25-26	per 100 lbs.	3 45
No. 27	per 100 lbs.	3 65
No. 28	per 100 lbs.	3 85

POLISHED SHEET STEEL.

No. 24	per 100 lbs.	$4 60
No. 26	per 100 lbs.	4 70
No. 27	per 100 lbs.	4 80
No. 28	per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth,	No. 20	$2 90
" "	No. 22-24	2 95
" "	No. 25-26	3 00
" "	No. 27	3 05
" "	No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B"	$9 20
Dickey Planished Sheet Steel	8½c

GALVANIZED IRON. Regular Sizes.

No 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 23 & 24, per 100 lbs	3 70
No. 26, per 100 lbs	3 00
No. 27, per 100 lbs	3 50
No. 28, per 100 lbs	4 70
No. 30, per 100 lbs	5 90
Nos. 22 & 24 x 36 in., per 100 lbs	3 10
No. 26 x 36 in., per 100 lbs	3 90
No. 27 x 36 in., per 100 lbs	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½, per lb.	29 c
Commercial ½ & ½, per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks, case, per cwt,	0 90
300 lb. Casks, per cwt.	7 95
Sheets, per cwt.	7 70

COPPER.

Copper, base,	24c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c

Sheet.

Full coils	per 100 lbs.	$7 00
Cut coils	per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.

Triumph	40&10%
Plumbs	50&5%

Coopers'.

Barton's	30%
White's	15%

Railroad.

Triumph	40&5%
Plumbs	50%

Ship.

Triumph	33⅓&5%
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c

Cartridges.

Winchester Rim Fire Ctgs.	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs.	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%

Primers.

Berdan Primers	$1 00
Winchester Primers	20%

Shells.

New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%

Gun Wads—per 1,000.

Winchester Gun Wads	15%

Powder.

		Each
DuPont's Sporting,	kegs	$ 4 50
" "	½ kegs	2 50
" "	¼ kegs	1 40
Dupont's Sm'k'less.	50-lb. drum	22 45
" "	25-lb. kegs.	11 35
" "	12½-lb. kegs	5 80
" "	6¼-lb. kegs.	2 97
" "	1-lb. cans	51

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 90
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 15
Buck Shot, 25-lb. bags, per bag	2 15
Chilled Shot, 25-lb. bags, "	2 15

ANCHORS.

Expansion Screw Anchors	10%

ANVILS.

Trenton, 70 to 80 lbs.	9½c per lb
Trenton, 81 to 150 lbs.	9½c per lb

ASBESTOS.

Board and Paper	33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.		
No. 3 Handled	per doz.	$0 40
No. 1050 Handled	"	80
Shouldered, assorted, 1 to 4,	per gro.	1 20
Patent asst'd, 1 to 4	"	85
Harness.		
Common	"	95
Patent	"	90
Peg.		
Shouldered	per gro,	$1 20
Patent	"	60
Scratch.		
No. 1, handled	"	4 80
No. 15, socket handled	per doz.	1 25
No. 7 Stanley	"	1 80
Sewing.		
Common	per gro.	90
Patent	"	90

AXES.

Boy's Handled.		
Lippincott, 3 lb	per doz.	$5 00
Falls City	"	5 00
Broad.		
Plumbs, West, Pat		40-12½%
" Can. Pat		50%
" Firemen's (handled).	per doz	$18 50
Plumbs, Miners (handled)	"	6 50
Single Bitted (handled).		
Gladiator	3 to 4 lbs., pr dz.	$10 00
Flint Edge	" " "	8 25
Standard	" " "	8 25
Elec. Chopper, Forest Clipper		9 50
Perfect Premier	" "	9 00
Crown	" " "	9 25
Single Bitted (without handles).		
Gladiator	3 to 4 lbs. per doz.	$7 25
Flint Edge	" "	5 75
Standard	" "	5 75
Electric Chopper	" "	7 00
Perfect	" "	6 50
Crown	" "	5 00
Double Bitted (without handles).		
Gladiator	3 to 4 lbs. per doz.	$9 75
Flint Edge	" "	8 50
Perfect	" "	9 75

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point cwt.	$3 25

BASKETS.

Clothes.			
Small Willow	per doz.	$5 75	
Medium "	"	6 50	
Large "	"	7 25	
Galvanized Iron.	½ bu.	1 bu.	1½ bu
Per doz.	$4 75	6 50	8 00

BEATERS.

	Per doz
Carpet.	
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	95
Egg.	Per doz
No. 50 Imp. Dover	$0 70
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	2 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8 inch per doz.	$7 50
10 inch "	9 50
Moulders'.	
12 inch "	11 00

BELLS.

Call.	
3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00
Cow.	
High Grade	60&10%
Kentucky	70&10%
Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50&10&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50&10%
Farm, lbs. 40 50 75 100	
Each $1.25 1.60 2.35 2.85	

BEVELS, TEE.

Stanley's, rosewood handle, new list	40%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&10&5%
Brass	75&5%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" Large " $36.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " " "	1 75
American Snail head. "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ⅞ & 1⅛ in. 40%
Clock Spring 40%
Star 15%
Coil ..... each $1 50

Hack.
Disston's ..... 25&5%
Flexible ..... 33⅓&5%
Star ..... 20&5%

Wood.
Jackson's ..... per doz. $2 25
Disston's—No. 6, 16, 26 & 045 .. 4 25
Triumph 3 50
Forest Clipper 3 00

BLOCKS.

Snatch.
Wooden ..... 60&10%
Steel 50%

Tackle.
Iron Strapped ..... 70&10%
Coin Steel ..... 60&10%

BOARDS.

Stove 40%

Wash.
Globe, single ..... per doz. $2 25
" double ..... " 2 75
Magnolia ..... " 2 65
Crystal Glass ..... " 3 40
Brass King ..... " 3 40
Nickel Plate ..... " 3 40
Enamel King ..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron ..... per doz. $0 65
No. 00, " ..... " 1 20
No. 0, " ..... " 1 80
No. 3, lead ..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 20
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅜x6 and sizes smaller and shorter ..... 70&10%
Carriage, sizes larger and longer than ⅜x6 ..... 60%
Machine, ⅜x4 and sizes smaller and shorter ..... 70&10%
Machine, sizes larger and longer than ⅜x⅜x4 ..... 60&5%
Elevator ..... 50-10&5%
Plow ..... 60&10%
Stove ..... 80&10%
Tire ..... 75&5%
Wagon Box Strap 70%

Mortise Door.
Gem, iron 60%
" bronze plated 30%

Barrel.
Cast 60%
Wrought ..... 75&10%
" Bronzed 50%

Flush.
Wrought ..... 50&10%

Spring.
Wrought ..... 70&10%
" Heavy 70%

Square.
Cast ..... 50&10%
Wrought 75%

BORERS.

Angular.
Miller's Falls ..... per doz. $13 00

Bung.
Doz.
Enterprise Mfg. Co.'s No. 1 .... $14 00
" " " No. 2 .... 18 50

BOXES.

Mail, No	1	2	10
Per doz	$3.25	4.50	17.50

Miter.
New Langdon ..... 15&5%
Stanley's 30%
Seavey's ..... each $1 50

BRACES.

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's 60%
" Nos. 66 to 146 ..... 50%
" No. 0108 ..... $3 50
" No. 0110 ..... 3 75
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 00
" No. 2 " 9 00

Shelf.
Cast Iron, Bronzed 50, 10, 5%
Griffin Wrought Steel ..... 75&10%
" Folding ..... 70&10%

BROILERS.

Wire ..... 70&10%
Crown, Self Basting, No. 80. doz. $2 50

BUCKETS

Pump Rubber
Wychoff ..... per gr. $4 75
Cooper ..... " 4 75
Champion ..... " 7 50
Victor ..... " 9 25
Star ..... " 5 00
IXL ..... " 6 75

Well.

Galv'd Qts	10	12	14
Per doz	$2.90	$3.25	$3.40

Wooden, top ear, plain, per doz. 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding ..... per doz. $2 10

BURRS, RIVETING.

Copper Burrs only 85%
Tinners' Iron Burrs only 70%

BUTTS.

Cast Iron ..... 70&5%
Wrought Brass 15%
Wrought Steel Bright.
Stanley ..... 75&5%
" Ball Tip ..... 75&10%
" " Bronzed 70%
Wrought Steel, Japanned.
Nos. 731 and 733 ..... 70-10-10&10%

CALIPERS.

Double 70%
Inside and Outside ..... 70&10%
Wing 70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M $3 75

Toe.
Shoenberger ..... per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes ..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.

Gallons	20	30	40
Each	$3.85	$4.50	$5.65

Milk.
Holstein.

Nos	300	301	302
Gals	5	8	10
Per doz	$20.00	$21.00	$23.00

Chicago Pattern.

Nos	105	108	110
Per doz	$16.50	$18.50	$20.50

Iowa Pattern.

Nos	408	410
Per doz	$20.50	$21.50

New Elgin Pattern.

Nos	705	708	710
Per doz	$20.50	$22.50	$23.50

Burn Pattern.

Nos	700	701
Gals	8	10
Price	$1.85	$2.10

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regulat ..... each $3 50
Diamond, Sling ..... " 6 50
Myers' Imperial ..... " 3 50
" Clover Leaf ..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing ..... 50&10%
Bed ..... 60&5%
Common Plate.
Brass Wheel ..... 60&10%
Iron and porcelain wheels, new list ..... 60&5%
Philadelphia Plate, new list .. 70%
Martin's 60%
Payson's ..... 75&10%

CATCHERS, GRASS.

Carroll s No. C ..... per doz. $4.25
Wildermuth's

Nos	1	2	3
Per doz	$5.60	$5.75	$6.25
Nos	4	5	6
Per doz	$6.75	$9.50	$10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack ..... doz. pairs $5 75
With Covert snaps. " 5 00
With slide ..... " 3 25
Without slide ..... " 2 85

Bright Ox Chains.
$\frac{5}{16}$ in. $7.25; ⅜ in. $5.45 per 100 lbs.

Cable Coil Chain.

Inch	$\frac{5}{16}$	⅜	$\frac{7}{16}$	½
Per 100 lbs	$9.80	$7.00	$6.00	$5.20

Inch	$\frac{9}{16}$	⅝	¾	⅞
Per 100 lbs	$5.00	$4.90	$4.75	$4.65

Inch	⅞	1	1⅛
Per 100 lbs	$4.55	$4.55	$4.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil

Cow Tie Chains.
American 2 toggle ..... 50&5%
" toggle and snap ... 50&5%
" open & closed ring, 50&5%

Halter Chains.
American, new list ..... 33⅓&5%
German ..... 60&5%
Niagara, new list ..... 40&5
Brown's, " ..... 40&5%

Picture Chains.
Light Brass, 3 ft ..... per doz. 50c
Heavy Brass, 3 ft ..... " 75c

Pump Chain.
Galvanized, per 100 lbs $5.00

Safety Chain.
Brass ..... 60&10%

Special Steel Loading Chain.

Inch	⅜	$\frac{7}{16}$	½
Per 100 lbs	$16.00	$13.50	$12.50

Stretcher Chains:
$\frac{5}{16}$ in. $8.50; ⅜ in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's ..... 70&10%

Trace Chains.
Western Standard.
6½—6-2 ..... per pair 30c
6½—8-2 ..... " 34c
6½—8-3 ..... " 33c
6½—10-2 ..... " 38c
7 —8-2 ..... " 38c
7 —10-2 ..... " 42c
7 —10-1 ..... " 48c
7 —10-0 ..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.

Inch	⅜	$\frac{7}{16}$	½
Per 100 lbs	$6.50	$6.00	$5.50

CHALK, CARPENTERS'.

Blue ..... per gross 75c
Red ..... " 65c
White ..... " 55c
Common White Sch'l Crayon 8c

CHARCOAL

In bags ..... per bag 85c

CHECKS, DOOR.

Blount 33⅓%
Sargent's 33⅓%

CHIMNEY TOPS.

Iwan's Volcano 50%

CHISELS.

Box,

Inches	10	12	14
Round, per doz.	$2.10	$2.25	$2.75
Flat "	2.85	3.60	4.20

Cold.
Good quality, ⅜ in. and larger ..... per ℔ 12c
Smaller size per doz.

Socket, Framing and Firmer.
Barton's 20%
Peck, Stow & Wilcox Co 75-5%
For beveled back, add per doz. .60c

Tanged, Firmer.
With handles ..... 30&5%

Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers ..... per doz. $6 25
Yankee, for Yankee Screw Drivers 5 00

CHURNS.

Anti-Bent Wood, Gal.	5	7	10
Each	$3.90	$4.60	$4.85

Belle, Barrel 65-7½%
Common Dash, Gal .. 4 5 6
Per doz $7.75 $8.50 $10.50
Hero 65-7½%

Union, Gal	5	7	10
Each	$3.65	$3.90	$4.75

CLAMPS.

Adjustable.
Martin's 30%

Carpenters'
Steel Bar 25%

Hose.
Sherman's, brass, ¾ in., per doz. .33c
Double, brass, ¾ in., " 65c

Saw Filers.
Disston's list, $30.00 ..... 30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1 $6.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle ..... per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel ..... " 1.60
Giant ..... " .60

CLEANERS.

Drain.
Iwan's Adjustable 55%
Iwan's Stationary ..... 40&5%

Pot.
Wire ..... per doz. $0.55

Side-walk.
Steel ..... per doz. $3.25
XLCR ..... 65&5%

CLEAVERS.

Family.

Griffin, In	6	7	8
Per doz	$5.50	$5.75	$6.25

Royal ..... per doz. 2 25

Butchers.
Beattys, Kitchen 40%

CLEVISES.

Malleable ..... 4½c ℔

CLIPPERS.

Bolt ..... $1.90@$4.75

CLIPS.

Axle ..... 65&5%

Damper.
Standard ..... per doz. 65c
Troy ..... " 38c

Hame ..... " 17c

CLOTH.

Emery.
Triumph ..... 50&10%
B. & A 50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1 95
9 to 12 " " " " 2 25
2 to 3 inclusive—in full roll 3 00
4 and 5 ..... " 3 25
6 ..... " 3 50
7 and 8 ..... " 4 00

Screen Wire.
12 mesh, painted, per 100 sq. ft..
14 " " " "

COCKS AND FAUCETS.

Compression Plain Bibbs ... 60-10-2½%
Lever Bibb Cocks ..... 60&10%
Compression Hose Bibbs ..... 60&5%
Telegraph Faucets (new list) ... 50-5%
Racking Cocks (new list) ..... 60&10%
Compression Lock C'ks(n'w list) .. 70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz $0.85
Milk Can Faucets, per doz ... $2.60-4.20
Petroleum Faucets ..... 75&10%

COLLARS, STOVE PIPE.

Inches	5	6	7
Plain Tin ... per gro.	$1.60	$2.00	$3.00
Japanned Tin "	3.00	3.00	4.25
Lacquered Brass "	2.75	3.25	4.00

COMBS, CURRY.

Nos	000	11	15	20	29	108
Per doz.	$0.32	.55	1.85	.85	1.10	.75
Nos	299	320	390	532	620	1400
Per doz.	$1.00	.80	1.30	1.15	.70	1.35

COMPASSES.

Carpenters' 70%
Pencil—Faber's ..... per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔ ..... per ℔ 35c
1½ ℔ ..... 33c 2 ℔ .... " 31c
3 ℔ and larger ..... " 28c

CORD.

Picture.
White Wire (new list) 85%

Sash.
Baltic Braided Flax ..... per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone ..... 8-32 in. " 26c

CORKSCREWS.

Humason & Beckley 33⅓%
Walker's 33⅓%
Williamson's Regular 50%
Williamson's Forged Worm 50%

COTTERS, SPRING.

All sizes—new list ..... 90&30%

COUPLINGS, HOSE.

Brass ..... per doz. $ .90
Brass Plated ..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil ..... 45¢
Smith & Hemenway Co. ..... 50¢
Woodward ..... 40¢
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25¢
No. 202, list, $1.50 ea. ..... 40&7½¢
Universal... Nos. 1 2 3
Per doz. $10.50 $12.50 $17.00
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10¢
American ..... 45&10¢

DIES, STOCKS AND

Discount ..... 40&5¢
King's, Little Giant ..... 33⅓¢

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle ..... " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60¢ & 65&5¢
Blacksmith's Twist ..... 60¢
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz. .. $7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's ..... per doz. $16 50
Bit Stock.
Standard List... 60&5¢@60¢@10¢

DRIVERS, SCREW.

Hurwood ..... 40-10&10¢
Standard ..... 65&10¢
Lock Ferrule ..... 60¢
Champion ..... 50¢
" Pattern ..... 70¢
Clark's Interchangeable ..... 30¢
Edison ..... 60¢
Reed's Lightning ..... 45&5¢
Goodell's Spiral ..... 50, 10, 5&2½¢
Yankee Ratchet ..... 50¢
" " Spiral ..... 50&10¢
Smith & Hemenway Co. ..... 40&5¢

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80¢
Central ..... 75&10&7½¢
Southern ..... 70&20&7½¢
Western ..... 70&20&7½¢
S. Western ..... 70&20¢
Terms, 2¢ for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10¢
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth, per doz. 0.40 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ½ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 6
Peerless 1 2
Keystone 1 2

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5¢
Hooks and—
Brass ..... 60¢
Iron ..... 70¢

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10¢
Disston's ..... 75&10¢
Kearney & Froh ..... 75&10¢
Royal ..... 80&10¢

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed ..... 60¢
Hay,
Jackson, 2 tine ..... 60&10¢
" 3 " ..... 70¢
" 4 " ..... 70&7½¢
Digging ..... 70&10¢
Scoop ..... 40¢
Header.
Jackson, 3 tine ..... 66⅔&5¢
" 4 " ..... 65&10¢
Manure.
Jackson, 4 tine ..... 70&5¢
Ore ..... 40¢
Spading.
Jackson ..... 80&10¢

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power . " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10¢
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. .....
..... 50&10¢
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's ..... 25¢

GIMLETS.

Discount ..... 35@40¢

GLASS, WINDOW.

First two brackets ..... 90&20¢
Above " " ..... 90&10¢

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5¢

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 14 c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy ..... 40¢
Le Page's—
List "A" ..... 37½¢
List "B" ..... 33⅓¢
List "C" ..... 25¢

GOODS.

Bright Wire ..... 85&10¢

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10¢

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing .. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top ..... " 47
" leather top... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie ..... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs ..... 60&5¢
Engineers'.
Plumbs ..... 60&5¢
Farriers'.
Plumbs ..... 40&12½¢
Machinists'.
Plumbs ..... 60&5¢
Nail.
Plumbs ..... 40&12½¢
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5¢
Riveting.
Plumbs ..... 40&12½¢
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs ..... 75&10¢
5 lbs. and over ..... 80¢
Masons'.
Single & Double Face ..... 75&10¢

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " ... per set 1 35
Axe ..... 60¢
Chisel
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10¢
Drifting Pick ..... 50&10¢
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 30¢
Hoe and Rake ..... 30¢
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade ..... 33⅓¢

HANGERS.

Barn Door
Challenge ..... 60&10¢
Peerless ..... 70&10¢
Silver Star ..... 60&5¢
Storm King ..... 60@5¢
World's Best ..... 50¢
Wagner's Adjustable ..... 70&10¢
Warehouse ..... 60¢
Griffin ..... 70&10¢
Conductor Pipe.
Griffin ..... 70&10¢
Iwan's Perfection ..... 50¢
Eave Trough.
Baker's ..... per gro. $9 35
Imperial ..... 20¢
Wire ..... 35¢
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5¢

HASPS.

Hinge, Wrought ..... 50&5¢
With Staples—See Staples.

HATCHETS.

Challenge ..... 40¢
Blood's ..... 40&10¢
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling ..... " $0 95@1 20
Germantown ..... 40¢
Plumb's ..... 40&5¢
Underhill's Star Lath ..... 40&10¢

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1 .... per doz. $ 9 00
" No. 2 .... " 9 60

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's ..... 65¢
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Ltch .... doz. $2.35 2.60 3.65
Hinges only .... " 1.70 1.90
Latches only ... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American ..... 20¢
Bommer Bros. Ball B'g Floor .. 35¢
Bommer Bros. Spring Hinges .. 40¢
Chicago ..... 25&5¢
Columbia Dbl. Acting .... 40&10&5¢
Gem ..... 25¢
Ideal Detachable .... per gro. $11.10
Matchless ..... 30¢
New Idea ..... per gro. $8.40
Oxford ..... 20¢
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5¢
Heavy Strap Hinges ..... 75&10¢
Light T Hinges ..... 60&10&7½¢
Heavy T Hinges ..... 55&10¢
Extra Heavy T Hinges .... 70-10&5¢
Cor. Heavy Strap ..... 75&10¢
Cor. Ex. Heavy T ..... 70&10&5¢
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅝ in ..... per 100 lbs. $6 55
½ in ..... " " 7 60
⅜ in ..... " " 9 45

HOES.

Garden ..... 75&5¢
Grub.
Extra ..... 70¢
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10¢
Mortar ..... 80¢
Planter's Eye ..... 62½¢
Weed ..... 75&15¢

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5¢
Iron ..... 65&10¢
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5¢
Jones' ..... 65&5¢
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.3
Humason & Beckley's, per doz. 2 5
(See Goods, Bright Wire.)
Bush.
Common Axe Handle.per doz. $7 0
Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60 - 8.10 9.75 11.50 12 6
Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought.....40&10%@50%
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per ℔. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ½ in. 35 ℔. pressure per ft....4½c
3 " ½ " 50 " " " 6½c
3 " ½ " 70 " " " 6½c
3 " ½ " 70 " " " ....8 c
4 " ½ " 80 " " " ....8 c
4 " ½ " 80 " " " 9½c
6 " ½ " 125 " " " ...10½c
8 " ½ " 150 " " " 12c
Cotton ½ in. 75 ℔. pressure per ft. 6c
" ½ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 50 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz..... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos.....A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5%
Stanley R. & L. Co. (new list)...25%
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 ℔. 3 50
" Nickel plated, " 4 50
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 67c
No. 55, " ..... " 71c
Tailors' Sad.....per ℔. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 2
Double " " ..... " 6 2
Sutton .....each 2 6

JACKS.

Locomotive.....70&7½%
Wagon.
Oliver.
Nos 0 00
Each..... $0.60 $0.8

Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.00

KETTLES.

Brass.....15%
Cauldron.....45%
Copper.....per ℔. 27c
Enamelled.....70%
Sugar .....50&5%

KNIVES.

Best Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's ..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters'.....10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Hetch Handle .....75@1 00
Lander's .....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 75
Porcelain ..... " 83
Jet..... " 85

LADDERS.

Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone.....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2½-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Buhl.....40&10&5%

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10%
Glaze.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger 45%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00
Ransom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner.....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2. .....per gross. $2.75
No. 1. ..... " 3.00
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1.10
No. 2 Asbestos Toasters, with ring.....per doz. .60

MATTOCKS.

Warwood.....70%
Extra 60%

MAULS.

Iron. lbs. 10 13 16 1
Per doz. $4.00 4.50 5.25 5.60
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.25	$2.60	$2.85
Japanned... "	1.75	2.45	3.15

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....20%
Second Quality.....20&10%

MILLS, COFFEE.

Enterprise 35%
Parker.....50%
Arcade 50%

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.25 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00
Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50
Clipper .....50, 10&10%
Yale.
Inches..... 4 16 18 20
Each.....$3.50 3.75 4.00 4.35
Philadelphia.
All Styles Except A & E 60, 10&10%
Style A.....50&10%
Style E, High Wheel..60,10,10&10%
Drevels.....50%
All Day.....Net Price

NAILS.

Cut Steel.....rates, $3 10
Horse Shoe.
Ausable .....55&5%
Capewell 15%
Perfect .....55&5%
Putnam 20-5%
Star.....35&5%
Clover Leaf..... ....per lb. net, 10½c
Picture.
Brass Heads .....33⅓&5%
Jddu's..... ....50&10%

Brads.....85&10%
Furniture 50%
Wire.
Small Lots.....$2 15
Carload " 2 05
Cement Coated..... 1 90

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g.
" After Weaving
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co...60%
Hoof.
Heller's .....40&10%
|||V. & B.....55-5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 50
Mystic..... " 2 90

NUTS, HOT PRESSED.

Square Blank.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝
℔. 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
℔. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60&10&5%
Zinc .....60&5%
Engineers'
Cannon.....55%
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5%
Jappaned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat ..per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico.....per doz. $1 20
Never Slip..... " 0 65
rate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 20
Fireside..... " 10 00

PADLOCKS.

Standard Wrought .....75&10%
Champion 50%
Eureka.....40, 10&5%
Yale .....60&5%

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 75
12-qt., " ..... " 2 00
Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.75 4.00 4.75 5.25
Water.
Galvanized, qts 10 12 14
Per doz $1 75 2.00 2.35
Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5%
Fry.
Common.....75&10%
Acme 70%
Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz. $4.75 $5.75 $6.50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin.....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10%
B. & A 50%
Wrapping
Drab Floer.....per ℔. 3½
Rag..... "

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....65&7½%
Drifting and Poll Picks.....65&7½%
Extra Railroad .....65&7½%
Surface.....65&5%

PINCERS.

Carpenters', cast steel.
In..... 6 8 10 12
Per doz...$1 80 $2 40 $2 80 $3 50
Blacksmith's 45%
Helier's 40%

PINS.

Clothes.
Common.....per box of 5 gro. $0 52
Hoyt's..... " " 31
U. S..... " " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....60&30%
Central.....70%
Southern.....65&10%
Western.....65&10%
Southwestern.....60½&7½%

Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7¾c

Stove.
Acme—In. 5 6 7
Smooth, per jt.. 8¾c 9¾c 10¾c
Planished " .. 32 c 38 c 43c
Peerless—Smooth. 7¾c 8 c 9¾c
Polished 14½c 15½c 18c
Plan'hed 28 c 31 c 35½c
Made-up—In. 5 6 7
Smooth 7½c 8c 9½c
7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
	Cents			
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7½	8½	8¾
Can't Slip Blue Smooth Steel.	6¾	7½	8½	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Fin	15¾	16½	17½	17¾
Plan'h'd Dupl'x	29½	30½	37	38
Galvano, Galvanized Iron .	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@½-in., black.....discount, 60%
⅝@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
⅛@½ galvanized " 42%
⅝@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60&10%
Stanley Iron Bench.....25&10&5%

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.75 $3.35 $4.15 $5.15

Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.15 $2.40 $2.90 $3.75

Cutting.
Bernard's.....30%
Lodi.....50%

End and Diagonal Cutting.
Swedish Side 70%
Utica Drop Forge & Tool Co....50%

Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 2[illegible]

Flat and Round Nose.
Bernard's.....30%
German 65%
Lodi.....50%
Paragon.....50%

Gas—In. 6 8 10 12
per doz...$2.35 $3.00 $4.00 $5.00

Tinner's.
Hollow.....40%
Solid.....each..5½c

PLUMBS AND LEVELS.

Common.....70&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

Stanley's.
Nos. 00 0 2 3
Per doz..$4.50 $5.00 $7.35 $8.40
Nos. 30 25 50 35
Per doz.$12.00 $17.00 $17.00 $12.00

POINTS.

Drive Well Points.....75&10%

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.
Pts. 1-6 ½ ¼
Per doz.....$0.80 $1.10 $1.65
Pts. 1 2 4 8
Per doz $3 75 $4.50 $7.50 $12.50
White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine
Pts. 1-6 ½ 1 2
Per doz.....$0.70 $1.35 $2.25 $3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz..... 2.25
U. S. Liquid, 8 oz. cans, per doz., $1 25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 13 00
Black Jack, ¾ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25%
Henis .....per doz. $1 85

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Giant Pattern..... " .. 6 00
Jumbo ..... " .. 9 00

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... " 2 15
Hot House—Jap'd .....50&10%
Screw..... " 60%
Side ..... " .....50&10%
Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 22
" Pattern. 2 in.. " 2[illegible]
Empire..... " 30
Ideal..... " 30
Steel..... " 25

PUMPS

Pitcher Spout.
Nos. 1 2 3 4
Each .....$.93 1.05 1.17 1.45

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25

Machine.....per ℔. 19

Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in..... 3½c
Storm King..... 4c
World's Best 7c

Sliding Door
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20

Garden.
Steel.....75&10%
Steel, bow.....75&7½%
Malleable Iron, heavy.....70&10%

Hay.
Wood.....$1.50@$3 00

Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ie 50%
Red Devil.....50%
Tree Brand 50%

REGISTERS.

List December 5, 1904.

Black and White Japanned.....70%
Nickel Plated.....70%
Electroplated, Brass, Bronze or Copper 70%

RINGS

Bull.
Copper ..... 2½ in 3 in.
Per doz..... $1.10 $1.35
Rea's Impro'd Self Piercing copper, pr d'z. 1.85
Steel per doz.. .85 .95
Nickel Plated 1.35 ...

and Ringers—Hog.
Blair's Rings .....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes..... " 47
Major Rings ..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers... " 80

Fruit Jar
White.....per ℔ 30c

Key
Split, round. .....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt 30%
Coppered Iron 75%
Tinners' 70%

Hame ..... per ℔. $0 10

Slotted Clinch.....per doz. 40c@45c

Tubular
Nos 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels. per ℔. 11½c
⅜, 5-16-in. Com. in coils .. " 12
½, 5 16 Imperial in coils . " 21

Sisal
Rates 10½
Premier rates .....per ℔. 8¾

Pure Manila.
Rates.... ..... " 13¾
Premier, rates .... " 12¾

RULES

Boxwood.....60&5%
Ivory .....45&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40%
Disston's .....30&5%
Jackson's.....30&5%

Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40%
Atkins' Nos. 77, 78.....60%
Atkins' No. 79.....50&5%
Disston's.....40&5%

Circular.
Atkins'.....50%
Disston's.....50%
Hiles'.....50&10%

Compass.
Atkins' Nos. 2 & 3 .....40%
Atkins' Nos. 4 & 5.....40&10%
Common.....per doz. $1.35@$1.60
Disston's.....25&7½%

Cross-Cut.
Atkins'.....35&40%
Disston's..... 40&10% &50%

Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75

Hack.
Atkins'.....40%
Disston's.....25%
Keystone.....30%

Hand and Rip.
Atkins'.....40%
Brown's .....30&7½%
Disston's No. 7.....30&10%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25&10%
Keystone.....35&5%
Enterprise, hand.....per doz.$5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50

Keyhole—Disston's.....30&5%
Atkins' No. 5.....40&10%
Atkins' No. 6.....40%

Kitchen.
Atkins'.....50&10%
Sterling.....25%

One Man 50%

Panel.
Atkins'.....40&10%
Brown's.....30&7½%
Disston's No. 7.....35&5%
Disston's No. D100.....30&5%

Pruning.
Atkins' Nos. 1, 2 & 3.....35%
Atkins' Nos. 5, 6 & 7.....40%
Brown's.....25&7½%
Disston's.....30&5%

Wood.
Atkins'.....40&10%
Common.....per doz. $4 50
Clover Leaf..... " 6 50
No. 44 Bishop..... " 6 50
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10%

Platform.
Osgood.....50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00

Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80

Road.
Cub'c ft. 7 5 3
Without runners, ea.$1.00 .75 3.50
With runners.... " 4.25 4.00 3.75

SCREWS.

Bench.
Iron, in,..... 1 1½ 1¾
$3.25 $3.75 $4.50
Wood, white maple..per doz. $3 50

Hand—Wood.....20&5%

Hand Rail.....60&10%

Jack .....70&10%

Lag or Coach—all sizes, gimlet pointed.....75&5%

Saw—Centennial.
Nos. 1 2 3 4 5 6
Per doz. 18c 20c 26c 30c 23c 25c

Wood.
F. H. Bright.....87½&10&5%
R. H. Blued..... 85&10%
F. H. Jap'd.....82½&10%
F. H. Brass.....85&10%
R. H. Brass.....80&10%
R. H. Nickel Plated.....80%

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass ..... " 6 75
Vulcan..... " 6 50
Honest Dutchman..... " 6 50
Be Ve B..... " 8 00

SHAVING SETS.
Smith & Hemenway.....60%

SETS.
Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
No. 5 Square..... " 75
Cup Point, knurled, pr. doz.....75
Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 25
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.
Diamond.....per doz. $1 60
Smith & Hemenway.....20%

SHAVES, SPOKE.
Iron.....per doz. $1.10@$1.85
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.
Pruning.
Buckeye, No 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat.. 9 in . " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.
Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.
Union..... per doz. $6.75

SHIELDS.
Expansion Bolt Shields.....50&10%

SHOES.
Conductor .....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.
Coal.
No. 2 Woodford .....per doz. $5 50
No 182. ..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond.....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.
Cast Iron.
Painted.....60%
Enameled, White.....60%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.
Champion.....33⅓%
German Pattern. .....30&5%
Judd's Pattern.....50%

SNATHS.
Double Ring, Bush.....per doz. $6 50
Patent Loop " .... " 6 00
" " Grass..... " 5 75

SNIPS, TINNERS'.
Wiss.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.
Perfect.
Nos..... 1 2 3 4
Per doz.... 30c 35c 40c 45c
Reliance.
Per doz.....light $1.25; heavy $2 50
Star.
Per doz..... light 90c; heavy $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.
Steel and Iron.....75%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12 ... .60%
Try.
Stanley's No. 20, new list. .45&10%
" No. 12 and 14.....55%
Try and Bevel.
Stanley's..... .....55&5%
Try and Miter.
Fox's.....per doz. $5.75
Winterbottom's 70%

SQUEEZERS, LEMON.
Common Wood.....per doz $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated.... " 4 50

STAPLES.
Blind.
Barbed.....per lb 9½@9¾c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 lb $2 30
Galvanized ..... " 2 60
Netting.
Galvanized.....per 100 lb 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10%
Extra heavy.....85%

STEELYARD.
Discount 30%

STONES.
Axe.
Hindostan.....per lb 5½@7c
More Grit ..... " 9½c
Washita..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6¾
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft..... " 1 10
Lilly White..... " 45
Queer Creek..... " 15
Ouachita ..... " 38
Washita ..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent ..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.
Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.
Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect ..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.
Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.
Carpet.
Bullard's.....per doz. $3 90
Exelsior ..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.
Malleable Iron .....per lb 07
Wrought Steel.....per gro. $4 50

TACKS.
American Cut.....90&20%
American Wire.....85&25&10%
Bill Posters Cut .....90&30%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut .....90&30%
Upholsters Wire.....90&10%
Double Pointed.....90&20%
Copper.....per lb 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.
Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.
Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.
Bale.
Single Loop.....80&10%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.
Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40%
Minature.
Smith & Hemenway.....25%

TRAPS.
Fly.
Balloon.....per doz. $1 15
Harper's..... " 1 25
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 10
Tin Choker..... " " 10
Delusion.....per doz. 1 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00

TROWELS.
Brick.
Clover Leaf.....40%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.
Bag.....each $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.
Standard. Ex.
Nos..... 3 2 1 large
Per doz....$5.00 $6.00 $7.00 $ 9.50
Dowell.
Per doz.... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10 80
Indurated.
Per doz.... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$5.25 $6.35 $7.50

TWINE.
Per lb
3-ply Cotton Wrapping.....25c
4 " " " 25c
4 " " Extra Wrapping.....27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...21c
3 " " " cones...25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls.....17c
" " ½-lb. " 16c
" " ¾-lb. " .....doz. 63c
2-ply " ¼-lb. " 11c
3-ply " ¼-lb. " 10c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....8½c
Seine.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard .... " 27 26½ 26
Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130-strand 6¾c
200 strand.....7½c

VISES.
Phoenix.....35%
Cheney's 20%
Parker's Oval Slide.....50, 10&2½%
Sargent's Oval Slide,
In. 2½ 3 3½ 4½
Es. $1 00 $1 25 $1 65 $2 00
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....50%
Adam's Mechanics'.....each 2 50
Williamson Universal,.....60%

WARE.
Stove Hollow Ware.
Plain or Unground 60%
Ground Ware.....50&10%
Enameled Ware.....50%
Country Hollow Ware, per 100 lbs $2.75
White Enameled Ware.
Maslin Kettles.....60&10&10&5%
Covered Ware, Tinned and Turn'd. 40%
Enameled 50%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite.50%

WASH BOARDS—See Boards.

WASHERS.
Standard O. G. cast iron...per lb. 2½c
Wrought iron in bulk per lb.:
In. ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5 lb. boxes, per lb.
In. ½ ⅝ ¾ ⅞ 1 ⅛ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.
Ax.....per doz....30
Galling .....per lb 10¾
Saw ..... " 8½

WEANERS.
Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz ..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.
Hitching .....per lb 2½c
Sash—F.O.B. Chicago...pr ton $24 50

WHEEL BARROWS.
Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No. C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.
Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.
Barbed Painted. Galv'd.
Carloads..per 100 lbs..$2.35 $2.65
Less than car " .. 2.40 2.70
Brass.
In coils..... 20%
In 1 lb spools, new list.....50&10%
Broom—Tinned. .....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 lb spools, new list .. 50&10%
Fence—Smooth.
Nos. 6 to 9. An'eal'd, pr 100 lbs. $2.15
Nos. 6 to 9, Galvl'd... " 2.45
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles 70%
Coppered, full bdles 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles..... 70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 lb. spools .....per lb 26c
Plain—Small lots..... $2.10
Car lots 2.05
Small spools 5c per hundred higher.

WRENCHES.
Acme Standard.....60%
Alligator No. 1.....85c net
Always Ready .....50&10%
Bemis & Call No. 2 Improved Pipe Wrenches 80%
Coe's Standard.....40&10&5%
Agricultural.....75&10%
Ellis Adjustable.....25%
Malleable "S".....per lb. 06c
Malleable..... " 06c
Stillson Pipe 70%
Trimo " .....65&10%

WRINGERS.
No. 22, Guarantee....per doz.$32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle ..... " 31 50
No. 500, Royal ..... " 32 50
No. 350, Universal.... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone ... " 28 00
No. 100, Rival..... " 23 50
No. 330, Relief..... " 28 00
No. 200, Superior. ... " 25 00
No. 15, Star..... " 18 50

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Acetylene Generators

Ideal Epworth Acetylene Co., Johnstown, Pa.

Advertising Books

Miles Pub. Co., Minneapolis, Minn

Ash Sifters

Hill Dryer Co., Worcester, Mass

Ammunition

Stevens, J Arms & Tool Co., Chicopee, Mass

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Boxes—Hardware

Green, A. H., New York
Heller & Co., Montpelier, O

Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y.
Plume & Atwood Co., Chicago

Bread Mixers

Pritchard-Strong Co., Rochester, N. Y

Cans

Roseland Can & Specialty Co., Rockford, Ill
Stuber & Kuck, Peoria Ill

Carpenter Benches

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

Davis & Cook, Watertown, N. Y
Duby & Shinn Mfg. Co., Branchport Station, Long Branch, N.J
Griffin Mfg. Co., Erie, Pa
Stanley Rule & Level Co., N. Britain, Ct
Wiebush & Hilger, New York City

Ceilings—Metal

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, Ohio
Eller Mfg. Co., Canton, O
Friedley & Voshardt. Chicago, Ill
Kanneberg Roofing & Ceiling Co., New York
Keighley Met. Ceiling Co. Pittsburg, Pa
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Wheeling Corrugat'g Co., Wheeling, W.Va

Chains

Bridgeport Chain Co., Bridgeport, Ct

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York

Clippers

Hotchkiss, Edward S., Bridgeport, Ct

Clips—Carriage Trimmer's

U. S. Clothes Pin Co., Montpelier, Vt

Clothes Dryers

Hill Dryer Co., Worcester, Mass
Mannen & Esterly, Cleveland, O

Clothes Pins

U. S. Clothes Pin Co., Montpelier, Vt

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Combination Boilers

Smith, Chas. Co., Chicago
Stoltz, F. D., Chicago, Ill

Commode Pails

Pierce & Laux. Burlington, Iowa

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

American Rolling Mill Co., Middletown, O
Berger Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Copper and Brass

Hungerford, U. T.. Brass & Copper Co., New York, N. Y
Plume & Atwood Mfg. Co., Chicago

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks., Buffalo, N.Y

Cutlery

Gillette Sales Co., New York, N. Y
Hotchkiss, Edward S.. Bridgeport. Ct
Smith & Hemenway, Co., New York
Weiss, L. T. Brooklyn

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis

Dampers

Sayre Stamping Co., Sayre, Pa

Door Hangers

Richards Mfg. Co., Aurora, Ill
Safety Door Hanger Co., Ashland, O

Eaves Trough

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Whitacre Mfg Co., J. E., Rockford, Ill

Elbows—Conductor Pipe

Dieckmann, F., Cincinnati, O
Eller Mfg. Co., Canton, O
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugating Co., Wheeling, W. Va

Elbows—Stove Pipe

Reeves Mfg. Co., Canal Dover, O

Electro Plating Outfits

Hanson & Van Winkle Co., Chicago, Ill

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enameled Ware

Briscoe Mfg. Co., Detroit
Lisk Mfg. Co., Canandaigua, N. Y
Reed Mfg. Co., Newark, N. Y
Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants

Vollkommer & Co., Pittsburg

Engineers & Contractors

Vollkommer & Co., Pittsburg

Eye Shades

Texas Co., The, Chicago, Ill

Firearms

Stevens, J. Arms & Tool Co., Chicopee, Falls, Mass

Fishing Tackle

Enterprise Mfg. Co., Akron, O

Fencing—Wire

Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Fences—Iron

Stewart Iron Works Co., Cincinnati, O

Files

Carver File Wks., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Paxson, J. W. Co., Philadelphia Pa

Furnaces—Hot Air

American Furn. Co., St. Louis, Mo
Beckwith, Estate, P. D. Dowagiac, Mich
Boynton Furn. Co., New York & Chicago
Detroit Heating & Lighting Co., Detroit, Mich
Forest City Fdy. & Mfg. Co., Cleveland, O
Graff Furnace Co., New York
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massilon, O
Kelsey Heating Co., Syracuse, N. Y
Magee Furnace Co., Boston
Mannen & Esterly Co., Cleveland, O
March-Brownback Stove Co., Pottstown, Pa
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Quaker Mfg. Co., Chicago
Ralt, Walter S. & Co., Chicago
Richardson & Boynton Co., Chicago
Robinson Furnace Co., Chicago
Schwab, R. J. & Sons Co., Milwaukee, Wis
Smith & Anthony Co., Boston, Mass
Stanton Heater Co., Martin's Ferry, O
Stove & Range Co., (The) of Pittsburgh, Pittsburgh, Pa
Van, John, Range Co., Cincinnati, Ohio
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Michigan Safety Furnace Pipe Co., Detroit, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Smith Co., Charles, Chicago

Furnace Rings

Walworth Run Fdy Co., Cleveland, O

Gas Appliances

Adler, H. Co., Carnegie, Pa
Oakman Mfg. Co., New York

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machines

American Lock Nut Co., Oregon, Ill

Hangers—Garment

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers

Clark, Quinn & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties

Arcade Mfg. Co., Freeport, Ill
Carver File Co., Philadelphia, Pa
Enterprise Mfg. Co. of Pa., Philadelphia, Pa
Holt-Lyon Co., Tarrytown, N.Y
Pritchard-Strong Co., Rochester, N. Y
Pullman Mfg. Co., Rochester, N. Y
Roseland Can & Spec. Co., Rockford, Ill
Taylor & Boggis Fdy. Co., Cleveland, O

Heater Combination

Smith, Chas., Co., Chicago
Stols, F. D., Chicago, Ill

Heating

Detroit Heating & Lighting Co., Detroit, Mich
Quaker Mfg. Co., Chicago

Hinges

Griffin Mfg. Co., Erie, Pa

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers

North Bros. Mfg Co., Philadelphia, Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants

Vollkommer & Co., Pittsburgh, Pa

Iron Fence

Stewart Iron Works, Cincinnati, O

Kitchen Utensils

Avery Stamping Co., Cleveland, O

Ladders—Shelf

Calander, John, St. Paul, Minn

Levels

Baker-McMillan Co., Akron, O
Davis & Cook, Watertown, N. Y
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems

Detroit Heating & Lighting Co., Detroit, Mich
Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods

Security Lightning Rod Co., Burlington, Wis
Maher & Son, Preston, Iowa

Locks

Yale & Towne Mfg. Co., New York, N.Y

Mail Boxes

Blick-Williams Co., Indianapolis, Ind
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill

Metal Lath

Wheeling Corrugat'g Co., Wheeling, W.Va

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

A-B Stove Polish Co., Chicago
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City
Wheeling Corrugating Co., Wheeling, W. Va

Mica

Munsell, Eugene & Co., Chicago

Miters

Whitacre, J. E. Mfg. Co., Rockford, Ill

Mop Wringers

Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York
Standard Horse Nail Co., New Brighton, Pa

Nickel Plating Plants

Hanson & Van Winkle Co., Chicago

Nuts

American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus, O
Garland Nut & Rivet Co., Pittsburgh, Pa

Paints

Connors, Wm., Paint Mfg. Co., St. Louis
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago

Pencils

Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Photograph Clips

U. S. Clothes Pin Co., Montpelier, Vt

Pistols

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes

Stanley Rule & Level Co., New Britain, Ct

Pumps

Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches

American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Radiators

Rochester Radiator Co., Rochester N.Y

Rasps

Disston, Henry & Sons., Philadelphia, Pa

Razors

Gillette Sales Co., Times Bldg., New York City
Smith & Hemenway Co., New York
Weiss, L. T., Brooklyn, N.Y

Registers

Ferrosteel Co., Cleveland, O
Foster, C. H., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Register Co., Cleveland, O
Meyer F. & Bro. Co., Peoria, Ill
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Tuttle & Bailey Mfg. Co., New York

Rides

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Roofing

H.W. Johns-Manville Co., New York, N.Y
Kanneberg Roofing & Ceiling Co., New York

Roofing—Asphalt

Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Niles Corrugating Co., Niles, O
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Roofing Cement

Garry Iron & Steel Co., Cleveland, O

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules

Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Sash Chain, Ribbon & Wire Cord

Pullman Mfg. Co. Rochester, N.Y

Saws and Saw Sets

Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales

Beckman Bros., Des Moines, Ia

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator

Harrington & King Perforating Co. Chicago, Ill

Screws

Columbus Bolt Works, Columbus, O

Screw Drivers

North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers

Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York

Settees—Iron

Stewart Iron Works, Cincinnati O

Shears

Bertsch & Co., Cambridge City, Ind

Shears—Sheet Metal

Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheets—Black and Galvanized

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished

American Sheet & Tin Plate Co. Pittsburgh, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shot Guns

Stevens J., Arms & Tool Co., Chicopee Falls, Mass

Shovels

Avery Stamping Co., Cleveland, O

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co. Canton, O

Skylight Gearing

Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N.Y

Slate

Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Soldering Furnaces

Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Turner Brass Works, Chicago, Ill

Sporting Goods

Enterprise Mfg. Co., Akron, O

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, Branchport Station, Long Branch, N. J
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Stoves and Ranges

Beckwith, P. D. Estate, Dowagiac, Mich
Born Steel Range Co., Cleveland, O
Chicago Stove Works, Chicago
Clark, Geo. M. Co., Chicago, Ill
Faultless Mfg. Co., St. Charless, Ill
Federal Stove Co., St. Charles, Ill
Foster Stove Co., Ironton, O
Germer Stove Co., Erie, Pa
Quality Stove & Range Co., Belleville, Ill
Schneider & Trenkamp, Chicago
South Erie Iron Works, South Erie, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa
Willard, Wm. G., St. Louis, Mo

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay

Bridgeport Crucible Co., Bridgeport, Ct

Stoves—Gas

Adler, H. Co., Carnegie, Pa
Standard Stove & Range Co., Pittsburg, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Pipes

Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Stove Polish

A-B Stove Polish Co., Chicago

Stove Patterns

Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Repairs

Brauer, A. G., St. Louis, Mo
Brucker, M., Chicago
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings

Troy Nickel Works Troy, N.Y

Stove Trucks

Arcade Mfg. Co., Freeport, Ill

Sugar Kettles

Sperry, D. R. Co., Batavia, Ill

Tanks

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Tapes

Lufkin Rule Co., Saginaw, Mich

Test Tube Holders

U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools

Lufkin Rule Co., Saginaw, Mich

Tinplate

Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware Trimmings

Berger Bros. Co., Philadelphia

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Wiebush & Hilger, New York City

Tree Guards—Iron

Stewart Iron Works, Cincinnati, O

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York

Tubs and Pails

Wheeling Corrugat'g Co., Wheeling, W. Va

Vases—Iron Reservoir

Stewart Iron Works, Cincinnati, O

Ventilators

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros. Streator, Ill
Pullman Mfg. Co., Rochester, N. Y
Wooden Ventilator Co., East Palestine, O

Wash Boilers

Reed Mfg. Co., Newark, N. J.
Star Enameling & Stamping Co., Pittsburgh, Pa

Washing Machines

Benbow-Brammer Mfg. Co., St. Louis, Mo
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
Waverly Woodenware Works, St. Joseph, Mo

Water Motors

Divine Water Motor Co., New York

Wire Goods

Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES

PATENTS

HUBERT E. PECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—Tin and plumbing business; bargain for the right man. Address B. B., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

For Sale—Twenty stove trucks; best make; can have them at a low figure. Address Thompson Bros., Muscatine, Iowa. 13-3t

For Sale—A-1 stock of hardware in Iowa, well equipped, systematized and in good shape. Good reasons for selling; rent low; good business; bumper crops in the neighborhood; heating and plumbing shop in connection, doing all the business with good man at the head of it. No traders need apply as this is a splendid chance for a hustler; cash sale or equivalent in shape of notes. Address A-76, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-3t

For Sale—General stock merchandise, with coal; double store; will sell dwelling also. Good reasons for selling. Address Lock Box 114, Paxton, Neb. 13-3t

For Sale—Leading hardware store, tin shop and plumbing in town of 2,300 population, located in northwestern Ohio; good business proposition; only firm doing plumbing and furnace work; within 16 miles; best of reasons for selling. Address L., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

For Sale—Nice clean stock of hardware and tin shop, doing a good paying business in city of 7,000 population. Bargain if taken at once; good reason for selling. Address Sam Thomson, Pontiac, Ill. 13-3t

For Sale—Clean stock of hardware invoicing about $4,000 in one of the best cities in Michigan, which will increase 5,000 in population in the next two years; store well located on Main street. Address A. N. P., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19ufn

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 25ufn

TINNERS' TOOLS.

For Sale—Wiring machine in good condition, price $6.00; also lot of tinner's stakes for sale cheap; send for list and price. Address F. B. Karl, Delaware, Ohio. 14-3t

For Sale—Tin shop, tools to do all kinds of work; one 8 foot steel brake. Shop does about $1,000 worth of business each month; will invoice about $500. Good reason for selling out. Address West End Supply Co., Indianapolis, Ind. 12-4t

For Sale—1 No. 130 square shears, 1 17 in. brass mounted groover, 1 double "Moore's" seaming machine, 2 circle shears, 1 hollow mantel, 1 sold mantel, and full set stakes. Address Robt L. Wilson, Peoria, Ill. 13-3t

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. 25ufn

HELP WANTED.

Help Wanted—Good all around tinner, furnace and hot water man with some knowledge of plumbing; must be temperate; good job to the right man; population 1,200; good schools. Address Tyler & Hallas, Salem, S. D. 15-3t

Help Wanted—Good straight tinner; also furnace, spouting and job work; fine shop, good tools and clean city. Address Acme Mfg. Co., 57 Chicago St., Freeport, Ill. 15-3t

Help Wanted—Hardware clerk, one who knows something about paint; steady employment in Chicago store; state age and experience. Address A-80, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Help Wanted—First-class tinner and plumber, work year around, will pay $3.00 per day to steady reliable man. Address N. D. McCutcheon & Co., Ltd., Idaho Falls, Idaho. 15-3t

Help Wanted—Good all around tinner and hardware clerk, good steady position for an industrious and sober man; must have good recommendations; state salary and full particulars in first letter. Address A-77, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Help Wanted—Good all around hardware and implement clerk, good position for a sober industrious man, not afraid of work; state salary and references in first letter. Address A-78, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Help Wanted—Tinner and all around man in country town; also handle furniture, man required to put this up and get in shape and work in store when not busy in shop; also put up stoves or any work that is desired of him. German preferred; state wages wanted; give references. Address A. S. Leffingwell & Co., Brighton, Colo. 15-3t

Help Wanted—Good all around tinner, one who will invest from $1,000 to $1,500 in an old established firm doing good business. Address J. H. Mitchell, Richmond, Ind. 15-3t

Help Wanted—First-class all around tinner that is competent to take full charge of shop; do all kinds sheet metal work, plumbing, furnace, steam and hot water heating. High grade work; must be A-1 man with correct habits; steady job, 9 hours, $24 a week; more if worth it. Address Box 68, Golden, Colo. 15-3t

Help Wanted—Good tinner and furnace man, steady job for the right man; wages $3.00 for nine hours. Address J. T. Crampton, Aurora, Ill. 15-3t

Help Wanted—Tinner, one that understands gas piping preferred. Address F. B. Karl, Delaware, Ohio. 14-3t

Help Wanted—Experienced estimator and solicitor, familiar with general sheet metal work, skylights and fireproof windows. Permanent position for high class man; state experience, age and salary required. Address Henry Weis Cornice Co., Kansas City, Mo. 14-3t

Help Wanted—Wanted to correspond with a practical workman on cornice cutting and furnace work; honest, sober and Protestant; object partnership in profits; tools furnished. Address Box 133, Elko, Nevada. 14-3t

Help Wanted—By January 1, experienced furnace and boiler salesman for Illinois. Do not apply unless you have had road experience selling goods to the trade. Address Illinois, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10ufn

Help Wanted—Two furnace and boiler salesmen for Indiana, Ohio, Pennsylvania and western New York. Will only consider men practical in the heating business and prefer such who have had road experience and are acquainted with the trade in this territory. Address D. C., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10ufn

Help Wanted—Four good tinners to work on furnace, metal ceilings and cornice work. Address Hoernel Hdw. Co., 311 6th St., Racine, Wis. 14-3t

Help Wanted—At once, cornice makers and tinners. Apply at Messenger & Parks, Aurora, Ill. 14-3t

Help Wanted—First-class tinner who thoroughly understands furnace work and ordinary plumbing; also willing to help in hardware store; good steady position to right man; strictly sober and reliable, one who speaks German preferred, but others apply at once. Address Hoffmann Hdw. Co., Scribner, Neb. (mgr. of Majestic Mfg. Co., in Nebraska for several years. Write me boys.) 13-3t

Help Wanted—At once, tinner who can take charge of small shop, steady job; state wages in first letter; married man preferred; chance for wife to keep house; four children in family, oldest 17, youngest 20 months old. Address Andrew Kahn, Jr., Sauk City, Wis. 13-3t

Help Wanted—At once, tinner for inside and outside work. Address Randolph Hdw. Co., Randolph, Wis. 13-3t

Help Wanted—At once, experienced hardware clerk, married man preferred; good wages, steady job; state references and wages expected. Address A-73, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Help Wanted—Good tinner at once, one who understands furnace work. Address W. B. Frymire, Bloomfield, Neb. 13-3t

Help Wanted—First-class tinner and furnace man with some experience in plumbing and steam fitting; will give steady employment all the year to good sober man; answering state wages and give references. Address J. H. Ford, Dodgeville, Wis. 13-3t

Help Wanted—First-class tinner and metal worker, no booze fighter. Address H. C. Worcester, Roodhouse, Ill. 13-3t

Help Wanted—At once, good all around tinner; must understand furnace and job work; no plumbing; good wages; steady work for steady man. Address Reiche Bros., Naperville, Ill. 13-3t

Help Wanted—Good all around man to clerk in hardware and implement store; state salary, give references; must be sober and industrious; steady job. Address Thos. Rawlings, Wakefield, Neb. 13-3t

Help Wanted—Foreman wanted for cornice shop; must be first-class, up-to-date cornice maker, strictly sober. Address Wm. Brown, S. 170 Post St., Spokane, Wash. 13-3t

Help Wanted—First-class tinner and plumber, steady job; $15.00 per week; good place to live in; rent cheap. Address A-69, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Help Wanted—At once, tinner who can do general work in country tin shop; good place and good wages. Address James Kerr, Lake Villa, Ill. 13-3t

Help Wanted—Cornice makers; good wages and steady work to experienced men. Address J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Power brake operator; good wages and steady work to experienced man. Address, stating experience and wages expected. J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9ufn

SITUATIONS WANTED.

Situation Wanted—Good tinner, plumber and furnace man of fifteen years' experience wishes to correspond with firm in need of such a man by the first of March or April, 1907; nothing east of Iowa considered. A-1 references; want position where there is plenty of work and will pay a hustler to do it. Address A-79, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Situation Wanted—First-class tinner for general job and furnace work, position at once; married; speak German; state wages and particulars in first letter. Address A-74, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—Position as hardware clerk, three years' experience in city of 50,000; understand bookkeeping and typewriting; can furnish A1 references. Address U. S., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—By tinner who understands pipe fitting and furnace work of all kinds; want steady job the year around; state wages; married man. Address A-72, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—At once, by tinner, plumber, steam, hot water and hot air furnace heating man; German American; age 34; married; 17 years' experience; A1 references. Address A-75, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

SITUATIONS WANTED.

Situation Wanted — Bookkeeper, ten years' experience as store clerk in different lines; 4 years' experience as all-around tinner; married man, sober, steady, German, good references. Position as clerk and bookkeeper and part shop hand preferred, within 300 miles of Pittsburg, Pa. Address G. J. Wecker, Rochester, Pa. 14-3t

SPECIAL NOTICES.

WANTED

Tinsmith or furnace man with practical experience wanted for our customers in country towns. Good wages and steady work to the right man. Say if you have had plumbing experience. Write

MERRICK-ANDERSON & CO., Winnipeg, Can.
or THE LENNOX FURNACE CO.,
12-4t Marshalltown, Iowa.

TO EXCHANGE

Have a finely located, improved farm in Iowa and one in Illinois to exchange for stock of hardware or implements. Address "B-13," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-4t

MAN WANTED

Somewhere near Chicago to assist us in showing and selling properties. No experience necessary if willing to let us teach you the real estate business. Salary $60 a month to honest man, willing to devote part of his time to this business.

CO-OPERATIVE LAND CO.,
12-4t Ambrus Bldg., Minneapolis, Minn.

WANTED

Position as manager of sales or assistant mill manager of sheet or tin plate business. Have large acquaintance with buyers east and west. Address "B-19," care of THE AMERICAN ARTESAN, 69 Dearborn Street, Chicago. 14-2t.

SALESMEN WANTED

Hustling salesmen to carry first-class line of stoves and ranges, on commission, as side line. Goods well and favorably known. We have fine proposition for a few high class men. State age, experience, territory, etc. Address "B-17," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-3t

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. 25-u. f. n.

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio. 25-u. f. n.

FOR SALE

USED MACHINERY—One lot shears 3' to 8' in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. 25-u. f. n.

WANTED

Metal ceiling solicitor for Chicago and suburbs. Must be thoroughly experienced and able to show results. Address "B-20" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-2t

WANTED

A tinner. One who is a practical furnace man to locate in good live town in Alberta, Canada. A man with $1,000 to invest in the business, preferred. Address "B-18" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-2t

WANTED

Two first-class furnace salesmen for western territory. Address THE MEYER FURNACE CO., Peoria, Illinois. 14-1t

COLLECT YOUR OWN BILLS

Without aid or expense of lawyers or agencies by using our Legal Collecting System. Used and undorsed by leading Manufacturing, Wholesale and Retail Firms. Write us for free sample set legal collecting forms for trial on debtor.

JOHN A. DAINTON & CO., Meriden, Conn.
14-4t

WANTED

First-class stove salesman, for Indiana; also salesman for Iowa. Salary and commission. Line strictly first-class and well known. State age and experience. Address "B-16," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-3t

SALESMAN WANTED

Travelers acquainted with the stove trade in south-west territory. House one of the oldest, with a popular and complete trademark line. A liberal contract will be made with the right parties. Address "Texarkana," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-u.f.n.

EQUIPMENT WANTED

We are in the market for a complete equipment for Stove Foundry, including patterns, which must be modern. Also machinery for making Steel Ranges. Prefer second hand if in good condition. Write, furnishing cuts and lowest prices. BOX 52, Sheffield, Alabama. 14-2t.

WANTED

Two first-class stove salesmen. Good salary and permanent position to men that can get the business. Applicant give full information concerning past experience. BLAKESLEY-TUTTLE STOVE CO., Kansas City, Mo. 15-4t

WANTED

Salesman. We have a fine territory in Central States, and permanent position for a man who can sell a well-known and established furnace to the trade. Address "B-21" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-7t

WANTED

An up-to-date practical man as Superintendent by a Steel Range Co., who also wishes to add manufacturing Gas Ranges. Must be competent in both, and in Sheet and Metal Pattern Work. State salary and full particulars, where last or at present employed with reference if any. All correspondence strictly confidential. Address EASTERN OHIO STEEL RANGE CO., Care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

WANTED

Salesman to sell steel furnaces to the trade. We are looking for an exceptional man, capable of taking full charge of a department. Address, "B-22," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-7t

Specialty Men Wanted

Wide awake specialty men to sell several articles of merit in the roofing line—quick sellers — liberal commission. Address, "B-23," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-2t

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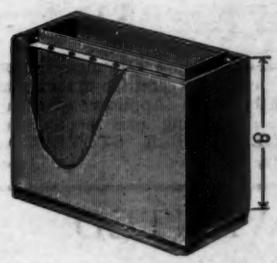
Tell the Tale.
THE AMERICAN ARTISAN
Will Spread It.

DIXON'S
Ticonderoga Flake Graphite reduces friction losses in cylinders, bearings, and at all friction points. Get free sample 18-C.
Joseph Dixon Crucible Co., Jersey City, N.J.



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Corner Brooklyn and Abbott Sts.
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe, and Single Pipe and Fittings, in both tin and galvanized iron.

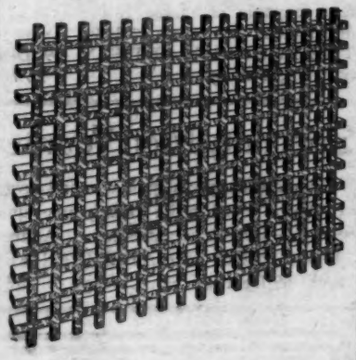
Send for our 1906 Catalogue. Our new factory insures you prompt delivery.

We belong to no combination. Don't get our name confused with other manufacturers.

They Will Close The Job For You

When in competition—if you can offer them a Hard Wood Cold Air Register Face

You Get The Job



Made from any hard wood to correspond with the floor or wood work. They fit flush—making a neater job than iron.

Let us send you printed matter explaining them.

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F. O. B. East Palestine, Ohio.

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East Palestine, Ohio

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69 Dearborn Street, CHICAGO

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Stanton Upright Steel

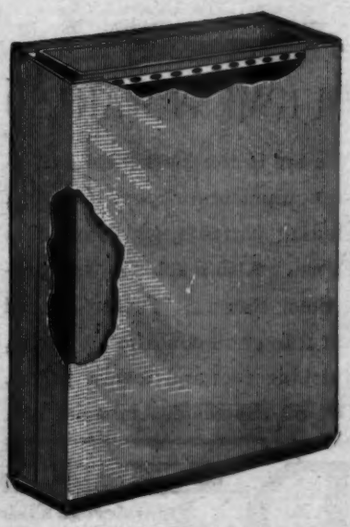
Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.
MARTINS FERRY, OHIO

GREEN FURNACE PIPE



Our Double and Single Furnace Pipe and Fittings are easily and quickly put together because they are perfectly made by skilled mechanics. We would suggest that you find out the freight rate on this class of goods from Des Moines to your station and compare it with that from any competing point. We have an immense stock and can always ship your orders promptly. We shall be glad to receive your request for our catalogue and discounts.

Green Foundry & Furnace Works
DES MOINES, IOWA

THE TAYLOR & BOGGIS FOUNDRY CO.

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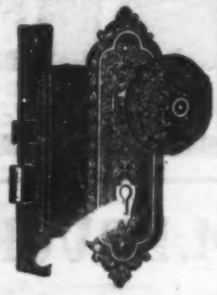
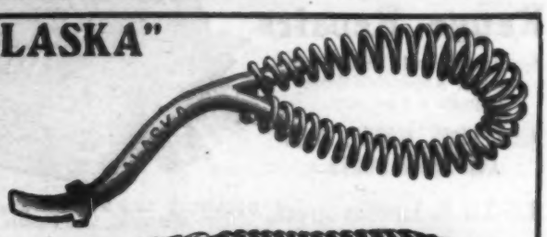
MANUFACTURERS OF **LIGHT GRAY IRON CASTINGS**

Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.



Here are a few samples of the "ALASKA"



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John E. Gaitley, Prop., ALBANY, N. Y.

ALWAYS COLD—as their name implies. The "ALASKA" is sold everywhere.

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IS THE Best and Most Profit Bringing Damper

Plate stamped from nickeled steel, corrugated and looped, to add strength and to prevent warping. Handle rigidly clamped to stem, which is sharply pointed and can be easily put into pipe.

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Complete Outfits for Electro-Galvanizing

Bolts, Nuts, Screws, Locks, Staples, Chains and Small Hardware

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Factories to turn out builder's hardware of all kinds, and in fact almost every article in daily use, would find the raw material, fuel and labor conditions very favorable. Write for particulars.

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Repairs for all Stoves and Ranges. Adjustable Stove Repairs a Specialty.

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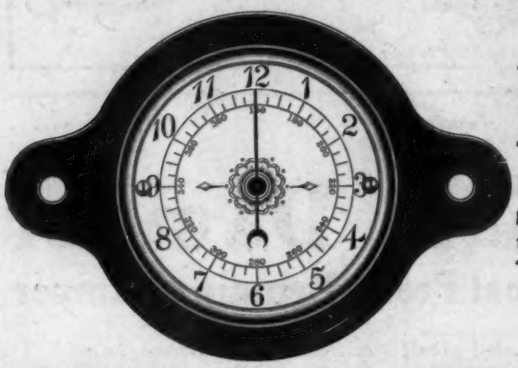

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Pay you to investigate the Merits of the "ACME" Oven Thermometer.

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FIRE PROOF—Uniform Texture, all of it will go through the bag.

RETURN—When used with above will give better results than charcoal.

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For Stoves and Heaters

First-class in wood and Iron.

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DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

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ONE POUND—4 SIZES

¼ lb. each size

North Carolina,	$3.40	4 x 6, 2¾ x 3¼
Wyoming,	2.90	2½ x 3, 2 x 5

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next winter and the stove foundry will soon work overtime. We supply facings, plumbago, graphite, putty, malleable iron and what not for foundry and pattern shop. Get our catalogue quick.

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For all kinds of plants using iron and steel and other metals. The country reached by the

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is now growing at a rapid rate. This growth is steady, substantial and based upon the great natural resources. Give us your requirements for plant location and we shall be glad to send information. Write the nearest agent.

Small Foundry in good town for sale cheap. Refer to Washington File 24,657, Chicago File 16,209.

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ESPECIALLY ADAPTED FOR STEEL RANGES—OAK STOVES—AIR-TIGHTS—STOVE PIPES—ELBOWS—DRIP PANS, ETC. : : : : :

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6½ x 7¾	$1.70	7 x 14	$2.65
6 x 8	1.80	9 x 12	2.60
7½ x 9	1.90	8½ x 15	3.10
7 x 10	2.10	8 x 17	3.45
8 x 10	2.20	9 x 14	3.00
6½ x 13	2.45	10 x 12	3 05
8 x 12	2.55	10 x 14	3.40

Packed 3 Dozen to the Crate.

10 x 15	$3.50	13 x 13	$4.00
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12 x 12	3.50	16 x 17	5.50
12 x 17	4.45	18 x 19	6.50
12 x 19	4.85		

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Flat Crimp Conductor Elbows

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Watch for another one next week. The "Dieckmann" is the only conductor elbow made of one piece of metal. I make 1,225 varieties, in all styles and angles.

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All Kinds of Sheet Metal Goods

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An Uncommon Trough Value At Common Trough Prices

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A trough with a round, open head, that's *made* to fit together easily and quickly. There's no right-angle flange in our "Easy Bead" to obstruct the joining of the sections. The material is 28 gauge Apollo steel, instead of the lighter stuff commonly used. The slip joints are perfectly formed and insure a firm, tight joint.

"Easy Bead" Trough is neater in appearance, more durable, stronger and costs less to put up than the old style trough.

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This cut shows the old style trough with a right-angle bend in the bead.

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Your jobber will supply it if you say the word, or you can order of us direct.

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This cut shows formation of the bead in our eaves trough.

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The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, can advise with manufacturers of specific products as to suitable locations, and furnish them with current information of a comprehensive nature dealing with the project in its full relation to manufacture and commerce.

The Erie is one of the greatest of trunk lines. Its own rails connect the two largest cities of America. Every section of the System has its particular merits. Profitable locations exist. It has great general and coal, oil and natural gas resources.

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Manufacturers' inquiries as to locations are treated in strict confidence, and absolutely reliable information, so as to promote permanent traffic, is furnished. Address

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Enclosed please find $2.00 for your most welcome weekly, THE AMERICAN ARTISAN. Whenever I get into an intelligent conversation, I can never praise it enough. Kindly send me the Tinsmith's Pattern Manual, and if it is as good as the last one I shall have a pair of good books.

25 YEAR CHARCOAL IRON

Schoedinger's Guaranteed Charcoal Iron Plate—without a peer on the market. Made from genuine charcoal iron, twice coated by the Palm Oil Process. Under favorable conditions will last 25 years, or as long as the building does.

Sold with a guarantee. An extra large stock—immediate shipment. The plate that pleases. Get the best.

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F. O. SCHOEDINGER, Columbus, Ohio

Dept. 2 146 N. Third Street 148

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the first cost of a metal ceiling that makes it cheap.

The cost of a ceiling is not complete until the work is accepted by the architect or owner. If the plates do not fit, your expense may be enormous. Better be on the safe side and get "Canton" Metal Ceilings.

We have a reputation for good work.

Our book "Art in Metal Ceilings" free.

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Eaves Trough

THERE IS NO BETTER WAY

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4 TRAINS A DAY 4

Standard and Compartment Sleepers on Night Trains. Parlor and Dining Cars on Day Trains.

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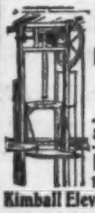

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Complete for ... $1.00

Sent Postpaid on Receipt of Price.

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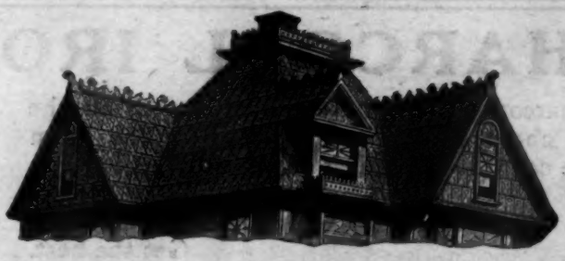

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"THE EDWARDS KIND"

A Guaranteed protection against fire and the elements, taking a very low rate of insurance. Can be applied by an ordinary mechanic.

On pitched roofs of every description the Edwards Shingles, being considerably lighter than slate, and having none of the disagreeable features—*i. e.*, rottening and warping—of wood shingles, are especially recommended.

Made of best grade Worcester Terne Tin, Painted or Galvanized (Galvanized after being formed) in sizes 7x10—10x14—14x20 inches.

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All Grades Manufactured and Sold by

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Polygon Conductor Pipes Won't Burst.

The twist in the corrugation checks the sudden fall of ice and water, thus protecting the joints. It stands hard knocks because it is corrugated. Again, it is much handsomer than plain pipe. Made in copper and galvanized iron.

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BURTON'S Eastlake Shingles

Have been on buildings for 17 years, in good condition yet. Better than any metal, slate or wood roofing sold. Write for catalog.

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Don't you know that if a man decides to put on a Cortright shingle roof all the talking you can do won't stop him, and that means you lose a job where you might have made some easy money. Cortright shingles make money for tinners and they don't interfere one bit with plain tin roof work.
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This Improved Crimping Roll will crimp sheets without buckling them. We build a complete line of Shears, Punches and Bending Rolls, all sizes for hand or power drive. BERTSCH & CO., Cambridge City, Ind.

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Then we went back fifty-five years. We built an old-fashioned forge; an out-of-date, behind-the-times affair, and resumed the manufacture of pure Knobbled rehammered charcoal iron by the old, slow, expensive methods.

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TIN PLATE, CORNICE, SKYLIGHTS

BLUED AND POLISHED STOVE PIPE IRON. EAVESTROUGH, CONDUCTOR PIPE.

STEEL ROOFING & SIDING ETC.

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The only Stove Lining made of crucible materials.

Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes.

Order it from your jobber.

The best and most refractory lining made.

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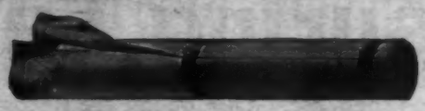

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We Have Our Own
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Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

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THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

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The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

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on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

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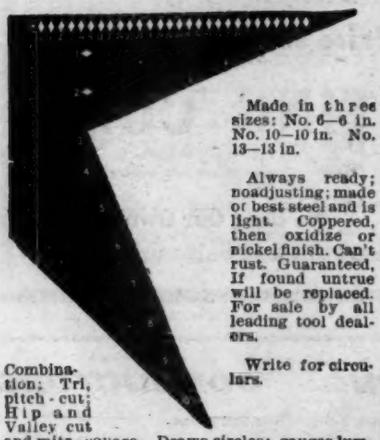
The New Universal Square

"NEW STYLE"



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James M. Kellogg,

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"For the general information it contains, your book, 'The Manual of Receipts,' is well worth the money."

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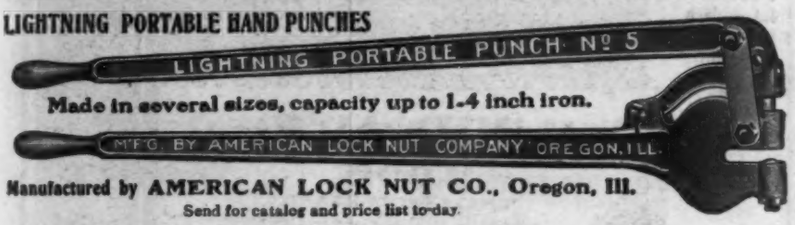
MADE BY

Niagara Machine & Tool Works, Buffalo, N. Y.

LIGHTNING PORTABLE HAND PUNCHES



Made in several sizes, capacity up to 1-4 inch iron.

Manufactured by AMERICAN LOCK NUT CO., Oregon, Ill.

Send for catalog and price list to-day.

Great Assortment of

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Leading Supply House in America for this class of goods. Ask for samples, catalog and prices.

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A Full Line of Horse Nails
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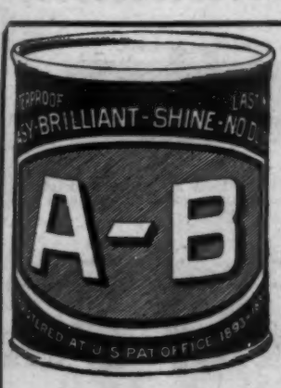
Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.



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For Stove Dealers' Use we make a patented dry powder stove polish, put up in bulk in wood boxes of 5 pounds each. Mix it as you want it; remix and use what remains, use every crumb of it. Five pounds does more, better and quicker work than 15 pounds of paste polish.

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Successors to AYLING BROS.

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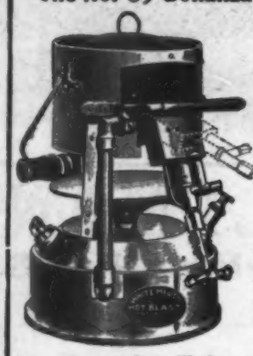
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around work. The tank is made of seamless drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.

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No. 5 Fire Pot, $4.50 Net

A careful test will show you that they use less gasoline, and as they have many advantages not found in other makes the user can accomplish more work in a given time, thus saving time that means money and gasoline that costs money.

Try one. Jobbers sell at factory price. Your money back if you are not pleased.

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ASK YOUR DEALER FOR THE

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Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.

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FAMOUS FOR TEMPER AND CUT
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Modern. Highest Grade. Fireproof.
OUR OWN ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS every few minutes between the Hotel, Depots, Wharves and through the Business District.
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GEORGE DUCHSCHERER, Proprietor.

Try Square No. 5—6-inch 8-inch and 10-inch. Note the Gauge edge.

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"CHALLENGE" BRAND.
CARRIED BY ALL JOBBERS.
Popular priced but accurate.

No. 3 Try and Miter Square, 10 inches only.
On this line No. 2 Miter Square 4½-in., 6-in., 8-in.
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When you sell Levels—Sell the right kind

A Tool you can sell quickly, profitably and satisfactorily to Carpenters, Masons, Machinists, and all who use Levels or Plumbs, is the
DAVIS & COOK LEVEL.
The different Level—with the bulb seen in all positions. Any mechanic will buy when he examines. Put in stock.
For sale by all the leading jobbers. Catalog on request.
DAVIS & COOK, 23 High Street, Watertown, N. Y.

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In introducing the above new Mason's Level, we are endeavoring to meet a demand from all parts for a Plumb Rule and Level which should embody the following points: It must be light in weight; it must be four feet long; it must have two plumbs; it must have good hand grip; it must have glasses clearly exposed; it must be firmly set, but adjustable; it must be low in price.
Don't you think we have met the demands? Write for discount.
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IMPROVED CARPENTERS' TOOLS
Sold by All Hardware Dealers. NEW BRITAIN, CONN.

The SPIDER

that will not scorch or burn even the most delicate dainty sauce or gravy. Will not absorb grease or flavor. Does not get smeary, dirty, unsanitary. Always clean, sweet, hygienic. Never warps.

"NEVER-BREAK"

Name always stamped on the handle.

You should have our complete catalogue.

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EXCLUSIVE MANUFACTURERS.

Porcelain Enamel
For
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We are the largest manufacturers of Benches in the World.

Write for catalog describing our complete line of Cabinet, Carvers, Pattern Makers and Manual Training Benches, Hand Screws, Cabinet Makers' Clamps, etc.

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Absolutely New, Patent Applied For

This new goggle is just out. Ask your jobber. Don't take any substitute.
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Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.

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EVERY GOOD COOK WILL SEE THE MERITS OF THIS TURNER

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The grease passes through it instantly and leaves the food light and tempting. Easily cleaned. Made entirely of steel. A firm, cool grip. Will last a life time. Costs no more than a poor one. Our catalog contains some 400 good things, and can be had for the asking. Risk a postal card on it anyway.

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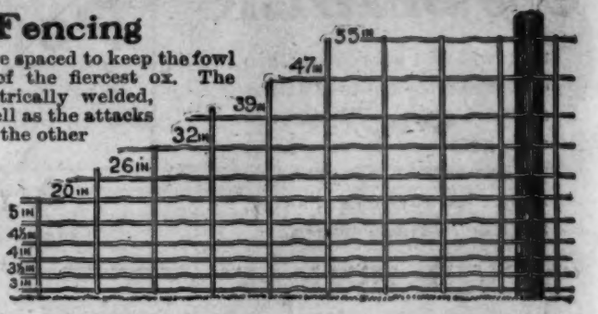
For Field, Farm and Hog Fencing

are made to meet all the demands they are subject to. They are spaced to keep the fowl within their limits and are calculated to stand the strength of the fiercest ox. The wires and rods are of the best steel the market affords, electrically welded, and are galvanized so that they can resist the elements as well as the attacks of the curbed in animals. They are just as meritorious as all the other



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of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers save money on goods.

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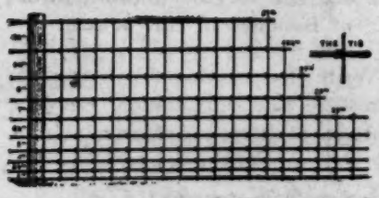
The Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



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Woven Field Fencing

Both Single and Double Strand.

JUMBO POULTRY turns everything. Lighter Poultry for less money of Various Weights.

Lawn and Cemetery Fence, Barb Wire, etc.

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THE DENNING WIRE & FENCE CO.

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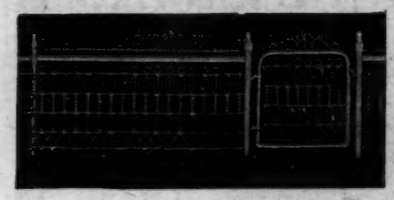


This is a pretty residence fence.

We have others more suitable for cemeteries.

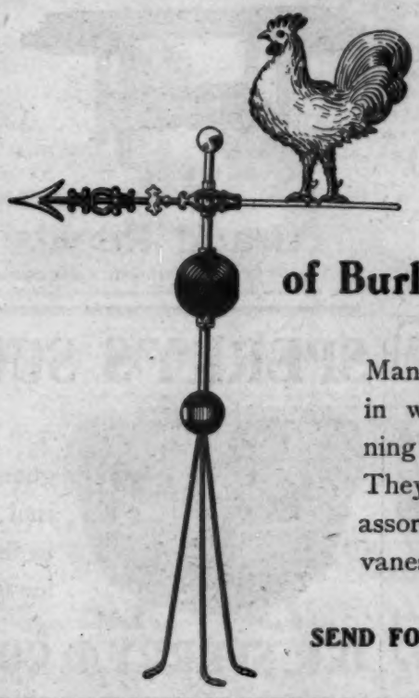
We can supply your fence wants.

We manufacture field fence, also wire gates.

CYCLONE FENCE COMPANY

WAUKEGAN, ILL.

CLEVELAND, OHIO HOLLY, MICH.



The Security Lightning Rod Company

of Burlington, Wisconsin

Manufactures everything in weather vanes, lightning rods and fixtures. They have also a large assortment of balls and vanes of all kinds.

SEND FOR THEIR 1906 CATALOG

THE SECURITY LIGHTNING ROD CO., BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION

when you use our

Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

What is Daus' Tip-Top?

TO PROVE that Daus' "Tip Top" is the best and implest device for making **100 copies** from pen-written and **50 copies** from typewritten original, we will ship complete duplicator, cap size, **without deposit**, on **ten (10) days' trial.** Price $7.50 less trade discount of 33⅓% or..... **$5 net**

The Felix C. L. Daus Dup. Co.

Daus Bldg., 111 John St., N.Y. City

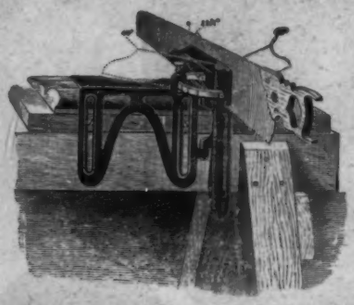
STEWART IRON FENCE

AGENTS WANTED

Write for CATALOGUE No. 23 To-day.

THE STEWART IRON WORKS COMPANY
CINCINNATI, OHIO, U.S.A.
"The World's Greatest Iron Fence Works"

SEAVEY IMPROVED MITRE BOXES



With its use any Cross Cut or Hand Saw can be used. Any width or depth of moulding can be cut. Can be used on top of ladders, scaffolds or in any place where a mitre box is required. No trimming with chisels or planes, no rubbing with sand paper in order to get a perfect joint.

No. 159—List per dozen, $30.00.

Write for Trade Discount and Carpenter's section of the Green Book.

SMITH & HEMENWAY COMPANY
108-110 Duane Street, New York

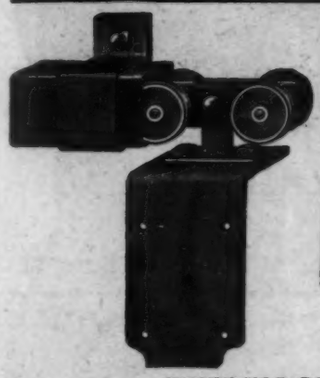
MAKE MORE MONEY

Rural Routes are going in all around you. You can get this business with the **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. • The best made, the best liked, the easiest sold and the best advertised.

SIGNAL MAIL BOX CO.
106 Benton St., Joliet, Illinois

Richards Trolley Roller Bearing Barn Door Hanger



The Best Trade Winner on the Market

SPARROW PROOF
WATER PROOF
JUMP PROOF
Lateral Adjustment

Made to Suit Door of Any Size or Weight

WRITE FOR CATALOG OF DOOR HANGERS

The Richards Manufacturing Co., AURORA, ILLINOIS.

No Dust, No Dirt

Pleases everybody

Quick Seller

Order at once to insure prompt delivery.

Send for prices.

HILL DRYER CO.
Worcester, Mass., U. S. A.

Blick No. 3 The Best Box FOR RURAL FREE DELIVERY

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x 19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

MANUFACTURERS

Contemplating establishing plants in the West should take advantage of a location on

THE NORTH-WESTERN LINE
C&NWRY

Chicago & North-Western Ry.

WHICH REACHES THE FAMOUS

Water Powers, Coal Fields, Iron Ore Ranges, Hard & Soft Lumber Districts

of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

MARVIN HUGHITT, Jr. Freight Traffic Mgr. — **E. D. BRIGHAM,** Gen. Freight Agt.

CHICAGO.

U.S. METAL POLISH

Excellent. Economical. No Experiment. A Recognized Success.

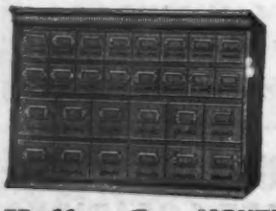
G. W. Hoffman, Sole Prop. 285 E. Wash. St. INDIANAPOLIS, IND. TRADE MARK

INFALLIBLE

FOR POLISHING GOLD, SILVER, PLATED WARE, NICKEL, TIN, BRASS, COPPER, Etc.

DIRECTIONS: Take a little of the Polish on a soft cloth, rub the Metal hard and then wipe it off with a dry cloth

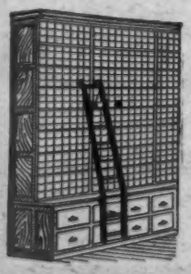
Steel Hardware Shelf Boxes



Screw Cases, Etc.

Send for Circulars.

Heller Co., MONTPELIER OHIO.



Milbradt's Rolling Shelf Ladders

Are made to fit all kinds of high shelvings, and are guaranteed to be satisfactory in every respect

HIGHEST AWARD St. Louis World's Fair

Send for Catalog and Prices

JOHN CALANDER
146-148 E. 8th Street
ST. PAUL, MINN.

44 ILLUSTRATIONS

Plainly showing how to make any stove or range operate perfectly. The cause and remedy for "don't work" stoves clearly illustrated. A money and trouble saver for Stove Merchants, Salesmen and Manufacturers.

Cloth, $1.25, Paper, 75c.

MILES PUB. CO.
P. O. Box 505 MINNEAPOLIS

YALE

Russia finish, pat. lock

STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY
HEMP & CO.
2nd & Chouteau Ave.
ST. LOUIS.

In the event your jobber does not handle this pipe send your inquiries to us.

At Every Point

you'll find that the

"OAKMAN" Self-Lighting Burner

is superior to any other Burner on the market. One of its strongest points is—that it will pay for itself—by minimizing the use of gas and by the saving in mantles—in a few months.

It's a mighty good article to handle—if you want a QUICK SELLER on terms that will leave a fair margin of profit FOR YOU.

The "OAKMAN" will back your most glowing praise and those who buy it, will—well, they're your customers!

Catalog "A" tells more about this truly wonderful burner—

DO YOU WANT IT?

OAKMAN MFG. CO.

84-86 Chambers Street, New York

176-180

The top of a steel keg of

IRONCLAD WHITE LEAD

is good; the middle is good, and clear down to the last atom in the steel keg it is good. It is all good and the tight steel package keeps it good. Ask us.

ENTERPRISE PAINT MFG. CO., Van Buren and Peoria Sts., Chicago, Ill.

HOLT'S Improved DOVER

Egg Beater and Cream Whip

Guaranteed to Beat EGGS to Perfection in 20 Seconds

The Flared Dasher Does It

WASH SOON AS USED BY TURNING IN WATER.

The above on a Tag is wired to every Egg Beater made by us.

The Holt No. A Egg Beaters are much larger and heavier every way than any 10 cent Dover made.

Retail Price 15 Cents, worth 25 Cents,

The Dashers are wider, thicker and flared ¼ inch. Made in 10, 15, 20 and 25 cent size. 5 years on the market.

Sold by Jobbers. Ask for Price List Circulars.

HOLT-LYONCO., Tarrytown, N.Y.

INDUSTRIES ARE OFFERED LOCATIONS

WITH

Satisfactory Inducements,
Favorable Freight Rates,
Good Labor Conditions,
Healthful Communities,

ON THE LINES OF

THE ILLINOIS CENTRAL R. R.

AND THE

YAZOO & MISSISSIPPI VALLEY R. R.

For full information and descriptive pamphlet address

J. C. CLAIR, Industrial Commissioner,
1 Park Row, CHICAGO.

CUT THIS OUT

To the Publishers **The American Artisan and Hardware Record**

69 Dearborn Street, CHICAGO

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

NAME .....

ADDRESS .....

TOWN .....

STATE .....

Gillette Safety Razor

NO HONING NO STROPPING

Fine, flexible, wafer steel that shaves 20 to 40 quick and comfortable shaves from each blade.

A MOST WONDERFUL SELLER. PLEASES EVERY PATRON. BRINGS NEW CUSTOMERS.

Nearly 1 Million first 30 months. Men Pay $5 cheerfully.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

THE SHAVEZY GUARD

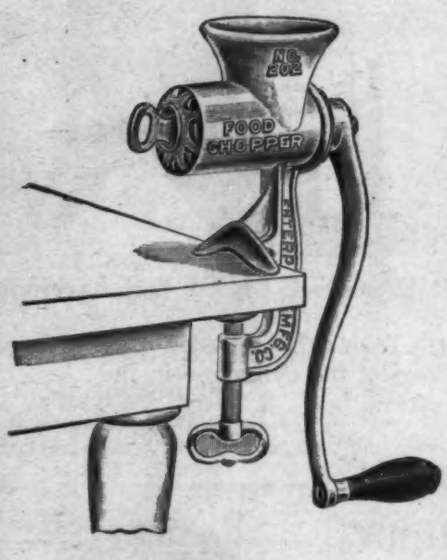
May be adjusted to any blade,
Instantly changed from right to left.
Is the best and a Cheap Guard.

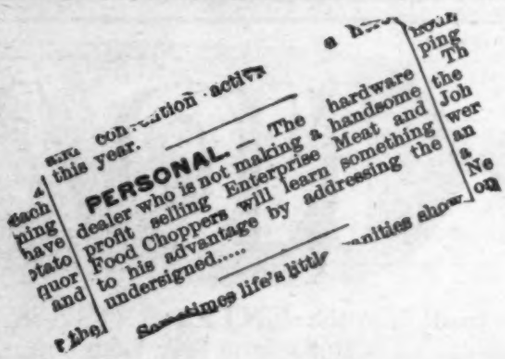
Get my prices, which are right.

L. T. WEISS, Sole Manufacturer
288-290 Taaffe Place, BROOKLYN, N.Y

The Fulton Hardware Co., Portland, Ind., write:

"Please discontinue our want ads for tinner and plumber, as we have received more replies than we can take care of at present."





We are breaking all records in sales of Meat and Food Choppers. If you are not selling more

ENTERPRISE
Meat and Food Choppers

than ever before there is something wrong.

Write us for "ginger" (live advertising matter), to start business bubbling your way. People are afraid now of packing house products. They want to chop their own meats. They are buying Meat Choppers from the dealers who are pushing them. Get in line!

THE ENTERPRISE MFG. CO. OF PA. PHILADELPHIA, U. S. A.
NEW YORK BRANCH, 10 Warren St. SAN FRANCISCO BRANCH, 318 Market St.

THE AMERICAN ARTISAN.
Gentlemen: Please discontinue my ad. I have sold the stock and die. The first issue did the business. Yours truly, E. J. KETCHUM. West Duluth. Minn.

NOT
A Mail Order Proposition
But Sold
EXCLUSIVELY
to the
RETAIL MERCHANT

VOSS LINE OF WASHERS

OUR
One Dealer in a Town
Agency
Will Interest You
WRITE TO-DAY
VOSS BROS. MFG. CO.
DAVENPORT, IOWA

HOTCHKISS CLIPPERS

Standard Quality and Workmanship Guaranteed. Prompt Shipment. Prices Right.

Simple in Design. Elegant in Finish.

No. 350 B. B.

Send for Descriptive Catalogue and Prices.

EDWARD S. HOTCHKISS,
IRANISTAN AVE., BRIDGEPORT, CONN.

U. S. CLOTHES PINS

never rust, smut, split, or blow off the line.
Any special clips made to order.

U. S. CLOTHES PIN COMPANY,
MONTPELIER, VT., U. S. A.

"The sun never sets on America's possessions" —neither should it be necessary to light a candle to see *your* trade mark.

"THE AMERICAN ARTISAN"

is, as its name implies, cosmopolitan. It touches Maine. It reaches Alaska. Let it carry your name along with it.

Sausages made with the **ENTERPRISE SAUSAGE STUFFER** have no air inside the casing. For this reason they keep better.

The corrugated spout allows the air to escape as the casing is stuffed. Buyers appreciate this, and other good points—like the accurate boring of the cylinder—in the

ENTERPRISE

SAUSAGE STUFFER, LARD AND FRUIT PRESS

NOW is the time to push these goods for the fall trade.

Ask for electros for advertising, and advertising printed matter.

The Enterprise Mfg. Co.
OF PA.
Philadelphia, U. S. A.

New York Branch, 10 Warren St.
San Francisco Branch, 318 Market St.

We want one Hardware Merchant as exclusive Agent in each town in Nebraska, South Dakota, Northern Kansas and Western Iowa.

Paxton & Gallagher Co.
Omaha, Neb.

Think of Washers Think of Waverlys

Write for Agency.
WAVERLY WOODENWARE WORKS
St. Joseph, Mo.

C. De Witt Wagner, 40[illegible] Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

The MAJESTIC WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar**, and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops**, is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

Richmond Cedar Works
Manufacturers of Wooden Ware
Richmond, Virginia.

Have you seen the

SNOW WHITE

The latest and finest Creation in a washing machine to date?

Ask your jobber or write us.

BENBOW-BRAMMER MFG. CO., ST. LOUIS, MO.

The Pioneer Washing Machine Manufacturers.

THE

WHITE DAISY

The Most Perfect Rubber Type of Washer Ever Produced

Double Ball Bearing Throughout, Corrugated Tub, Hinged Cover, Adjustable Drip Board and Fully Guaranteed.

WHITE LILY WASHER CO., TOLEDO, OHIO DAVENPORT, IOWA

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY?
Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

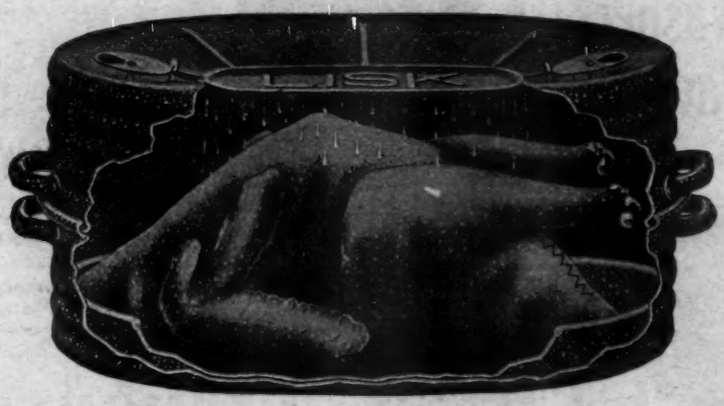
Eagle Cooperage Works, Sole Mfrs., **Circleville, O.**

The LISK Sanitary

Self-Basting Enamel Roaster

Is the most wonderful cooking utensil and the best and most profitable seller ever placed upon the market.

¶ An extensive advertising campaign, embracing the use of all the best magazines read by over five million people, has awakened a wide public interest in the roaster.



¶ It is a guaranteed money-maker and labor saver.

¶ Seamless, sanitary, self-basting.

¶ It is manufactured in four sizes from Lisk's celebrated Imperial gray enamel steel ware and is unconditionally guaranteed.

¶ If you do not handle it, send for booklet and prices.

THE LISK MFG. CO., Ltd.

Canandaigua, N. Y.

That label on a Bread Mixer means something!

It means that the PRISCO Bread Mixer is sold under a positive Money-Back Guarantee—that if the PRISCO Bread Mixer is defective in any way, or if it doesn't fulfill every claim we make for it, it may be returned and the purchase price will be promptly and cheerfully refunded.

You take no chances when you sell PRISCO Bread Mixers—every PRISCO is **sure** to give complete satisfaction.

The PRISCO mixes better bread in **2½ minutes** than is possible in any other Mixer in 3 minutes, or by hand in half an hour. The PRISCO pail is heavy tin, highly burnished and polished. The PRISCO swivel clamp holds the Mixer securely on the table without boring holes. The PRISCO stirring rod stirs from the bottom.

Shall we send our PRISCO Bread Mixer Proposition, and show you where you can open up a genuine Gold Mine?

THE PRITCHARD-STRONG COMPANY,

Makers of PRISCO "Money-Back" Metal Ware.

25 CIRCLE ST., ROCHESTER, N. Y. **Chicago Office: Republic Bldg., State and Adams Sts.**

G. B. Gas Furnace

"G. B."
Trade Mark.

For Heating Soldering Coppers.

Will heat 5-lb. coppers in a few minutes. Neat, clean and so constructed that no dirt can get into burner to clog it and obstruct the flame. **Price $2.50 f. o. b. New York.**

Sole Manufacturers

G. BICKELHAUPT SKYLIGHT WORKS

245-245 W. 47th St., New York.

All Orders C. O. D. *Pamphlet Free.*

"Yankee" Tools

ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

and are without equal in quality or efficiency in practical use.

No. 10 and 11—Ratchet, Right and Left Hand and Rigid

No. 15—Rachet, With Finger Turn on Blade

No. 30 and 31—Spiral Ratchet, Right and Left Hand and Rigid

No. 40-41-44—Automatic Drill

No. 50—Reciprocating Drill for Wood or Metals

Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

From Ogden Johnston & Co., Carbondale, Ill.:

Please take our advertisement out. We have secured results. Your paper certainly reaches the craft. Long may it flourish! 9-5

TRIUMPH

In Boiler-Making

Quality, Construction and Finish are the distinguishing features of

Reed's Monarch Hand-made Wash-Boiler

Four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate with 14, 16, 18 and 20-oz. full weight copper bottoms, full line tin bottom and metallic bottom boilers, also four grades all copper boilers.

Monarch boilers all wired with 5-16 hard market steel wire drop forged, which makes the boiler strong enough to withstand a pressure of 300 lbs. without deflecting 1 16 of an inch. *See Cut.*

Furnished with Reed's new, seamless pressed cover, with 1-inch rim; cover and rim made of one piece; patent cold stationary handle, riveted on top of cover. Fits like a glove—is strong and durable.

Catalogue and price list mailed free on application. A comparison of prices will warrant your patronage, as we are in a position to furnish the best boiler for the least money made in America.

Reed Manufacturing Co., Newark, N. Y.

Branch Offices: 225 West 12th Street, CHICAGO
55 Atlas Bank Bldg., CINCINNATI

DO YOU KNOW Pierce's Patent Commode Pail

COMMODE PAIL

is the only one having a latest improved closet seat which need not be removed when cleansing. Seat is on outside of body with braces riveted to side of pail. Made of galvanized iron painted and decorated in assorted colors or finished in white enamel. Packed one fourth dozen per crate.

Get a trial order from your jobber and we assure you, that you will buy none other. If you do not find them better than any made to-day, you may return them to us and we will pay your bill.

FOR SALE by the jobbing trade only.

PIERCE & LAUX

Manufacturers of Hardware Specialties Sell to Jobbers Only

BURLINGTON -:- -:- -:- IOWA

True in Quality, Material, Workmanship

are

Disston Squares and Levels

They are truly economical. They are reasonable in price and they last. They are made in many different styles and sizes for all purposes.

Have you got our complete catalog?

Quality Tells

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel and File Works

PHILADELPHIA : : : : PA.

STEVENS

SINGLE BARREL SHOTGUN, No. 180

List Price, $12.00

We are always mindful of the requirements of the Shooting public and know to perfection what the users of GUNS and RIFLES desire. Our varied and extensive output of

RIFLES, SHOTGUNS, PISTOLS,

emphasizes the extraordinary popularity of the time-honored STEVENS LINE.

SHOOTERS the WORLD OVER demand the STEVENS—want no others—*insist on our make!*

All Jobbers handle STEVENS ARMS. Send for 140 page catalog and circulars of new goods.

J. Stevens Arms & Tool Co.

460 MAIN STREET

CHICOPEE FALLS, MASSACHUSETTS

Good Roofing Tin

That is **really good** sold at prices that enable you to **save** something—sometimes considerable—on your orders. It **will pay you** to write for sample and prices

The McClure Co.

Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address

EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

A GOOD TIN ROOF IS JUST AS GOOD TODAY AS IT EVER WAS.

THERE IS NO OTHER COVERING FOR BUILDINGS THAT EQUALS IT IN BEING FIRE-PROOF.

MODERATE IN COST OR DURABILITY AND THE FAILURES AMOUNT TO NOTHING CONSIDERING THE COUNTLESS THOUSANDS IN USE.

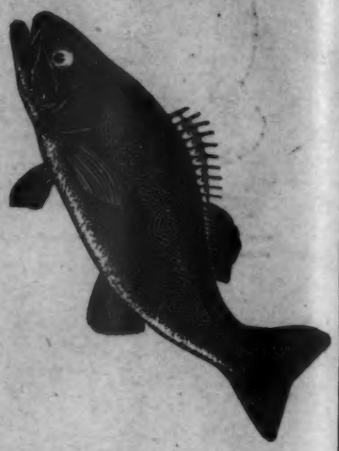
BUY A KNOWN GOOD BRAND LIKE OUR "SCOTT'S EXTRA COATED," PUT IT ON RIGHT, SEE IT'S CARED FOR, AND YOU HAVE A GOOD TIN ROOF. THERE'S NOTHING ELSE TO IT.

Follansbee Brothers Company Pittsburgh

The Tin Plate Makers

PFLUEGER'S Fishing Tackle

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle.



NOTICE—Free to any Dealer in Sporting Goods. Sent Express Prepaid, 170-Page Illustrated Catalogue No. F25, and Metal Fish Sign in 8-Color Lithograph

The Enterprise Mfg. Co.,

AKRON, OHIO, U. S. A.

$25 ON 5 TON is what you can save. We make all kinds of scales. Write for prices.

Also R. R. PUMPS and WIND MILLS

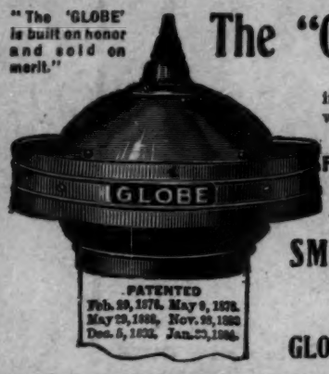
Beckman Bros., Des Moines, Ia.

No dealer may call his stock complete without the

STAR EXPANSION BOLT COMPANY

147 Cedar Street, New York
142 Lake Street, Chicago

"The 'GLOBE' is built on honor and sold on merit."



The "GLOBE" Ventilator

in COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character

SMOKY CHIMNEYS CURED

"GLOBE" Ventilated Ridges. Send for Pamphlet.

Manufactured by

GLOBE VENTILATOR CO., Troy, N.Y.

TRADE MARK DELTA

DELTA FILE WORKS
CARVER File Company

PHILADELPHIA, PA.

FILES OF QUALITY

An independent organization not connected with the trust in any form, shape or manner.

The ECLIPSE Nested Stove Pipe Thimble

BEST ON THE MARKET

PATENT PENDING

Saves 80 per cent. of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made so that the lug passes through two slots and then tied.
The lug is always on top; therefore the **LUG** is not an objection to the entering stove pipe.
It is always kept nice and clean in a box: therefore no unsightly, rusty looking thimbles to adorn the stores. Galvanized iron; 5, 6 and 7 inch.

STUBER & KUCK, Manufacturers of Pieced Tinware and all Styles Flour Sifters. **Peoria, Ill.**

Watch for our next advt.

Tinners Find Employment

By advertising and using

THE

Powers Automatic Chimney Tops

They make chimneys draw, give give tinners employment making stocks and give the dealers profit.

Sold by Hardware Jobbers and Dealers.

Made only by

POWERS BROS.
Streator, Ill.

This cut free to dealers.

THE "CENTENNIAL"

RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Patent applied for.

Manufactured only by

COONEY & GEIGER

19 and 21 East South Street, Indianapolis, Ind.